



Bulletin of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation,
and study of Oregon's native vegetation

Volume 26 Number 1

January 1993

ISSN 0884-599

State News

Jan 9th, Sat.

State Board Meeting: 10 am at Leach Botanical Garden, 6704 SE 122nd Avenue, Portland. Hosted by the Portland Chapter. Directions: from I-84 take the 122nd Street exit and drive south to the garden. From I-205 take Foster Road exit and drive east to 122nd and turn right onto 122nd. Go 1/4 mile to Leach Garden parking lot, which is across the Johnson Creek Bridge. All members are invited.

Chapter News

Blue Mountain

Jan. 4th, Mon.

Meeting, 7:30 pm in Room M130 of Blue Mountain Community College. We will elect officers and Marilyn Lieuallen will give her presentation of "Wildflowers of the Oregon Trail". For more information call Jerry Baker at 566-3381.

Corvallis

Jan. 11th, Mon.

Meeting, 7:30 pm at the Unitarian Fellowship, 2945 NW Circle Blvd., Corvallis. Speaker Paul Hammand will discuss "Conservation of Endangered Butterflies on Native Grasslands in Western Oregon". For more information, call Keli Kuykendall at 758-8409.

Emerald

Jan. 11th, Mon.

Meeting at 7 pm. Dr. Joy Belsky will give a slide/lecture titled: " 'Holistic range management'; its science doesn't bear close inspection." The holistic paradigm is a popular but flawed world-wide grazing management scheme.

Jan. 11th, Mon.

Lane County Rare Plant List Update. 7:00pm. University of Oregon Herbarium. Examine the local impacts of the recently freed national rare species listing "log jam". Contact Tom Pringle, 484-0669 to participate or share specific information.

High Desert

Jan. 26th, Tues.

Meeting, 7 pm at the Central Oregon Environmental Center. "The Great Basin of the Last 12,000 years" by Dr. Rick Miller of Oregon State University.

Feb. 23rd, Tues.

Meeting, 7 pm at the Central Oregon Environmental Center. "Ecology of Oregon Grasslands: What We're Not Hearing From Our Land Managers" by Dr. Joy Belsky, Range Ecologist for Cornell University.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas must be no larger than 12.

Klamath Falls

For information on the pending formation of this chapter, contact Bruce Rittenhouse (888-9328).

Mid-Columbia

Jan. 6th, Weds.

Meeting, 7:30 pm at the Mosier School. Jerry Igo, Mid-Columbia Chapter President, will present "Showy Wildflowers of Oregon", a new video especially suited for cold winter nights.

Feb. 3rd, Weds.

Meeting, 7:30 pm at the Mosier School. John Kallas of the John Inskeep Learning Center will present a program on edible weeds.

North Coast

For information, call Jim Winslow at 842-2246

Portland

Jan. 12th, Tues.

Meeting, 7 pm at the First United Methodist Church, 1838 SW Jefferson Street, Portland at . Paul Slichter will present a slide show on the plants found around Broken Top, South Sister, and the Tam McArthur Rim.

Watch your February NPSO *Bulletin*. for an announcement of our Winter Study Weekends on Saturdays Feb. 6th, 13th and 20th, 10 to noon in Portland.

Siskiyou

Jan. 21st, Thur.

Meeting, 7:30 pm in Room 171, Science Building, Souther Oregon State College. Bill Haight, Fisheries Biologist for the BLM, will present a program on the Jenny Creek Restoration Project. The public is invited. For information, call Linda Knight at 488-3608.

Jan. 23rd, Sat.

Herbarium Workday & Potluck Lunch, 9 am to 4 pm, in Room 214 of the Science Building at Southern Oregon State College (enter via the east entrance of the building, near the greenhouse). SOSOC has 15 boxes of Forest Service herbarium specimens, collected in SW Oregon in the early part of this century. We will examine these specimens, update names, check current SOSOC collections, and decide which specimens will become part of the college herbarium and which will be distributed to other herbaria. Very little keying will be done. Participants need no special expertise. Bring your potluck dishes and drinks for lunch. Disposable tableware will be provided. Even if you can't stay all day, we will have a task you will enjoy. For information call Wayne Rolle (776-4316) during normal business hours.

Jan. 28th, Thur.

Conservation Committee Meeting at Darlene Southworth's home at 496 Beach Street, Ashland. Bring any topics for consideration.

South Coast

For information on the pending formation of this chapter, contact Bruce Rittenhouse (888-9328).

Umpqua Valley

Jan 14th, Thur.

Meeting, 7:30 pm in Room 311 at the Douglas County Courthouse, Roseburg. Steve Erickson will present a program on Ramp Canyon. For information call Russ Holmes at 672-4635.

Williamette Valley

Jan. 25th, Mon.

Meeting, 7 pm in Room 225 of the First United Methodist Church, 600 State Street, Salem. **Please Note, this meeting is on a fourth Monday of the month so we can avoid a holiday conflict!** This will be our Annual Member's Slide Show or "Member's Melody". Please bring ten of your recent best slides or UFO's (unidentified flowering objects) for us to enjoy and / or help identify. For more information, call Kathy Connelly at 327-1212.

Feb. 22nd, Mon.

Meeting, 7 pm in Room 225 of the First United Methodist Church, 600 State Street, Salem. **Please Note, this meeting is on a fourth Monday of the month so we can avoid a holiday conflict!** Margie Willis will give a slide show on "Tropical Fruits and Flowers". Margie has participated in research and has travelled extensively in Central America. For more information, call Kathy Connelly at 327-1212.

Mar. 15th, Mon.

Meeting, 7 pm in Room 225 of the First United Methodist Church, 600 State Street, Salem.. Jerry Igo, an active Mid-Columbia Chapter NPSO member, will present a video on "Showy Wildflowers of Oregon". For more information, call Kathy Connelly at 327-1212.

William Cusick

Jan. 12th, Tue.

Meeting, 7 pm at the ESD Office, 2100 Main Street, Baker City. Randy Alanko, a member of the Penstemon Society, will present a program on penstemons of northeastern Oregon.

The previously announced Hells Canyon llama trip has been rescheduled to April 23rd to April 25th in order to fall on the weekend. For information, contact Berta Youtie at 962-3903.

Welcoming Our New Members....

The following are the new NPSO members from October 4th to November 1st, 1992:

Blue Mountain Chapter

Heidi Dobson
Valerie Geertson

Corvallis Chapter

Nancy Crocker
Nancy Post

Emerald Chapter (Eugene)

Dale & Margaret McBride
Anna Mokler
Marie Street
Kathy Thompson
Jenny Ulrich

High Desert (Bend)

Evelyn M. Brown
Al & Cindy Pagel

Mid-Columbia (Mosier)

Lance & Janis Holmberg

Portland

Robert A. Davies
Everett Dial
Gary J. Simantel

Willamette Valley (Salem)

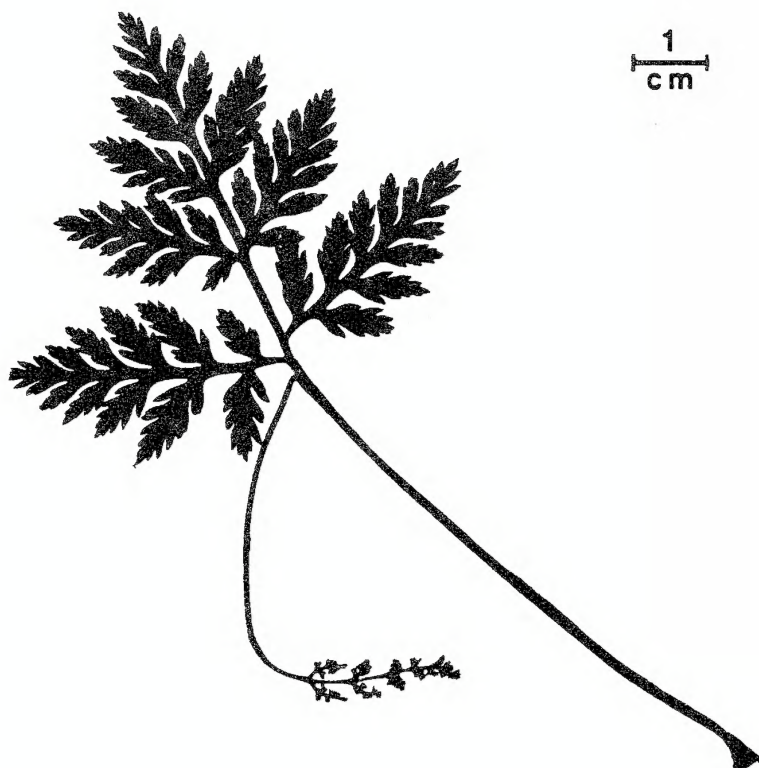
Jim Border
Susan Yamanaka

William Cusick (Northeast Oregon)

Deb Martin
Bonnie Rux

New Chapter Officers for Corvallis Chapter:

President: Duncan Thomas
Vice-President: Keli Kuykendall
Treasurer: Dan Luoma



THE PLANT PUZZLE

Sponsored by the Siskiyou Chapter

Do you recognize this native plant? The first person to give the correct scientific name will win a prize.

Send you guess on a postcard to:

Peter Zika
4230 NW Clubhouse Place #1
Corvallis OR 97330

Danna Lytjen of Corvallis solved the November puzzle. Her choice of four plants native in both western Oregon and in Baja: *Eschscholtzia californica* (California poppy), *Sarcodes sanguinea* (snowplant), *Abronia umbellata* (pink sand verbena) and *Salicornia virginica* (glass-wort).

THE NATIVE PLANT SOCIETY IN THE NEW YEAR

As we enter 1993 the Native Plant Society of Oregon (NPSO) is entering a new phase of activity and commitment towards our mission of conserving, enjoying and studying the native flora of Oregon. We have several important conservation issues facing the Society that may require a new approach to ensure the protection of rare elements in our flora.

The first of these issues is our involvement with four other conservation groups in the suit against the US Fish and Wildlife Service for the listing of seven desert plant species threatened by gold mining. We as the Native Plant Society need to be involved in this suit as we are the most respected and qualified organization of advocates for our native flora. As Stu Garrett mentions in his column, we are not committed at this time as a party in the lawsuit but we are keeping our options open. The California Native Plant Society has been very successful with this approach and has removed the log jams preventing the protection of the rarest plants in California. The US Fish and Wildlife Service has settled all suits of this type out of court and we intend to work with them to provide the protection guaranteed to these rare plant taxa under the Endangered Species Act.

The second issue we will be dealing with early in the new year is the establishment of a NPSO grazing policy. Again, this is an issue at which I feel it is important for us to take a closer look.

We will be discussing both these issues at our Board meeting in January. If you have strong feelings on either of these issues, I strongly encourage you to either attend the meeting or let your chapter president or myself know your feelings. As we celebrate the return of the sun at solstice, the Christmas holiday and watch the turning of the New Year, I wish you a joyous season celebrating the diversity that is unique in Oregon.

—Lisa Croft
NPSO President

NPSO—ODA INTERNSHIPS AVAILABLE

The Oregon Department of Agriculture Conservation Biology Program (ODA) and The Native Plant Society of Oregon (NPSO) expect to co-sponsor two internship positions for summer 1993 field work. The internships last approximately two weeks during which the intern works with ODA staff conducting research on endangered plants, often in remote parts of the state. Participants must be willing to travel, camp overnight, hike and work outdoors, often in inclement weather. Scheduling of the internship is somewhat flexible, and participants receive a \$300 stipend from both ODA and NPSO. By September 1993, each intern must write a description of their research activities to be published in the NPSO *Bulletin*.

In addition, ODA hopes to offer a **2 TO 3 MONTH** internship position in 1993. This position will acquaint the intern with several threatened and endangered species and all aspects of field research. The participant will receive a stipend of \$800 per month, and be expected to accompany ODA field staff on a regular, full-time basis. Funding for these positions is not yet secured, but we expect to have final confirmation no later than March 1993.

Anyone may apply. If you are interested, please contact:

Tom Kaye or Bob Meinke
Oregon Department of Agriculture
Plant Conservation Biology Program
635 Capitol NE
Salem OR 97310
(503) 378-3810

EASTSIDE CONSERVATION REPORT

The Eugene Rare Plant Conference was held on November 7th with over 100 attendees from the Native Plant Society of Oregon (NPSO) and various agencies. Over 170 plant species were considered and a number of additions, deletions, and changes were made in the rare plant list for Oregon. Jimmy Kagan of the Natural Heritage Database did an excellent job as moderator. The Database folks are ready to pass on the task of hosting the biennial conference and printing the book which is Oregon's official listing of rare species. The NPSO has offered to take over the job. The next meeting will be held the first weekend of November, 1994 in Bend and will be sponsored by the High Desert Chapter.

As our members are aware, cyanide heap leach mining for gold is being planned for Oregon. The planned Grassy Mountain Mine in Malheur county has just been taken over by Newmont Gold, Inc., which is the largest gold producer in the USA. When the price of gold rises, this mine WILL become a reality. Others will surely follow. In light of this prospect, the NPSO and four other conservation groups petitioned the US Fish And Wildlife Service (USFWS) to list under the Endangered Species Act of 1973 seven of eastern Oregon's rarest plants (*Amsinckia carinata*, *Astragalus sterilis*, *Eriogonum crosbyae*, *Ivesia rhypara* var. *rhypara*, *Mentzelia mollis*, *Mentzelia packardiae*, and *Senecio ertterae*) which are threatened by this mining as well as by grazing, recreation (motorized and non-motorized) and other activities. The petition was submitted in October, 1991. The document has been highly praised by everyone who has seen it as well-written and based on sound science. The USFWS found it to be "substantial" at all levels of review within the agency. Unfortunately, they have missed the statutory one year deadline to respond to our petition and show no evidence that they plan to list these rare species. There are unsubstantiated rumors that the Bureau of Land Management and USFWS will try to replace the listing of several of these species with conservation agreements.

In consultation with NPSO President Lisa Croft and others, we have decided that this response is insufficient, and further action on behalf of these plants is needed. Therefore, in conjunction with co-petitioners Portland Audubon Society, Oregon Natural Desert Association, Concerned Citizens for Responsible Mining, and Oregon Natural Resources Council, we have authorized a Eugene attorney with experience in these matters to file a 60 day notice of intent to sue the Department of the Interior for missing the one year deadline. This filing doesn't constitute a suit and doesn't commit us to be a party to one. It simply maintains our option to do so. The NPSO Board will discuss further action at its next Board meeting. I feel that NPSO should pursue these listings vigorously. Please make your feelings known to Lisa, your Chapter President, or me. On a positive note, more habitat for *Astragalus tyghensis* is being protected from domestic livestock grazing partly as a result of NPSO concerns. The Tygh Valley milk-vetch is an Oregon endemic which is found on State Park lands along the White River in Tygh Valley. Sites and survey plots for this plant within the park were being heavily impacted by grazing. Calls and letters by NPSO to the State Parks Department helped to bring about a project which will fence this public land from cattle and help conserve the rare milkvetch. The Parks Department was cooperative and pro-active on this issue and they are to be commended.

—Stu Garrett

Eastside Conservation Chair

TO OBTAIN A SUMMARY OF THE RARE PLANT CONFERENCE

The biennial conference on Oregon Rare Plants was held on the University of Oregon campus in Eugene on November 7th, 1992. A total of 171 plant taxa were reviewed by plant experts and enthusiasts from Oregon and other states. A summary of the conference results can be obtained by writing the Oregon Natural Heritage Program, 1205 NW 25th, Portland, OR 97210. Please include a self-addressed, stamped envelope.

"WHERE CAN I BUY NATIVE PLANTS AND SEEDS?"

The answer to this commonly-asked question can be found in a neat little publication entitled Hortus Northwest: A Pacific Northwest Native Plant Directory and Journal. Although some NPSO members use this book regularly, others don't know of its existence. The current edition contains several articles of interest, a listing of northwest native plant and seed sources, and a cross index of nurseries listed for each available species. In other words, if you have a particular plant you are looking for, you can look up the plant, and the nurseries which carry the plant and / or seeds for starting it are listed. In my experience, the nurseries that send you the seeds give you no instructions on seed preparation or planting, so you're on your own. To assist with these questions, try Arthur R. Kruckeberg's superb book Gardening With Native Plants of the Pacific Northwest: An Illustrated Guide, available at bookstores or from the University of Washington Press, Seattle.

To order *Hortus Northwest*, contact Dale Shank at 266-7968 or PO Box 955, Canby OR 97013.

—Bruce Newhouse
Emerald Chapter

WILD AND SCENIC RIVER UPDATE

The Salmon and Sandy Wild and Scenic Rivers Environmental Assessments have been completed and published by the Salem District Bureau of Land Management (BLM) and the Mount Hood National Forest. For both rivers the botanical / ecological resources have been found to be "outstandingly remarkable". This means that these river stretches are unique or very unusual in the region, and from a management standpoint need to be handled with care.

The Salmon River flows through a wide variety of life zones from its headwaters to its mouth, ranging from high alpine life zones at its headwaters on Mount Hood to westside Douglas-fir forest types along the lower river. Along the way, the river flows through communities including a large subalpine meadow complex, important riparian areas, narrow basalt canyons, and old-growth Douglas-fir forests. The number of and variety of life zones and plant communities in a relatively short stretch of river are remarkable in comparison with several other rivers in the four county area.

The Salmon River is located to the west of the Cascade Range and to the south of the Columbia River Gorge. From its origins on Mount Hood at Palmer snowfield, the river flows for 33 miles, through the Salmon-Huckleberry Wilderness and through eight miles of mixed BLM, Clackamas County and private lands, to its confluence with the Sandy River at Brightwood. The entire river is designated a Federal Wild and Scenic River.

The botanical / ecological resource of the lower Sandy River are considered "outstandingly remarkable" values because of the diversity of vegetation (plant species and communities), the presence of a unique low elevation old growth forest ecosystem, and its important scenic and wildlife values.

The Sandy River is located just south of the Columbia River Gorge, and empties into the Columbia River just northeast of Troutdale. A 12.5 mile stretch of the river from Dodge Park to Dabney Park is designated as a Federal Wild and Scenic River. The same stretch of river is designated as a State Scenic Waterway as well.

For further information, contact Paul Norman, ZigZag Ranger District, Mount Hood National Forest (503-666-0700) about the Salmon River, or Bob Ratcliffe, Salem District BLM (503-375-5669) about the Sandy River.

—Larry R. Scofield
District Botanist
Salem District BLM

WHAT IS A NATIVE PLANT?

The following is from *The Plant Press*, Newsletter of the Arizona Native Plant Society, Summer 1992.

Does that seem like a dumb question? We all know without a doubt that a saguaro is a native plant while a salt cedar is not. Native plants are plants that belong here and we have united to protect them. Native plants are like love or sleep. If you are the type that has to define them, you obviously don't know what they are.

If you have ever tried to write an ordinance dealing with revegetation issues, you have probably had the embarrassing experience of discovering that you aren't so sure after all. Let's look at some attempted definitions:

1. Native plants are the "common plants generally found in an area". These include palo verde, desert marigold, mesquite saguaro, ponderosa pine, tumbleweed, lovegrass—whoops.
2. Native plants are "those plants that arrived in our area on their own and were not introduced by man". This raises problems of knowing what plants were actually introduced by man, especially pre-Spanish man. Perhaps mescal or a yucca was cultivated by the Hohokam. Does anyone have a good species list from 1066 or 1492?
3. Native plants are "those plants that arrived in an area on their own and were not introduced by man in the last 100 years". Isn't this one a bit eurocentric? What is botanically different about plants introduced by Anglos as opposed to O'Odham? Or is the difference the number of generations?

Now let's look at the dictionary definition of a native. "Being such by birth or origin." If we used that definition, an exotic plant would become native in the second generation, just as a native Arizonan is one born here even if the parents came from Peoria. (Although the only real Native Americans are those whose ancestors arrived here before the conquest.) That doesn't work.

How about "Originating, growing or produced in a certain place; indigenous as opposed to exotic or foreign". That has all the problems of the definition above, except it does not include those "introduced from outside". Since a lot of southern Arizona species arrived within the past 10,000 years, they wouldn't technically be indigenous. Actually, "indigenous" is probably closest to what we really mean, but would you prefer to belong to the "Indigenous Plant Society"?

"Who cares?" you say. "I know what I mean." Sure, but put that into an ordinance. Try telling someone in the construction business that they must revegetate with native plants, without telling him what natives are. And try taking him to court for the crime of planting a non-native, without being able to prove that plant really is non-native—to do that you need to know what a native is.

Of course you could just list them, but that brings up another problem. Any list is bound to exclude someone's favorite species unless it is many pages long. And one has to have good reasons putting plants on a list or leaving them off. I actually saw a list of native plants for Pima County which included the Canary Island Palm. Who am I to say that's not now native?

One legal attempt to define native referred to plants naturally found within a certain number of feet of the property in question. Plants may be native to riparian areas, but not surrounding lands. And that would mean that creosote flats would have to be revegetated with creosote where the landscaper might have preferred saguaros.

I think you get the picture. Now the Society has a position on revegetation and a strong statement of principles, it would help to know what we are talking about. If anyone has found a good working definition of "native plant" please send it to the Editor for further consideration. This right answer could make you a winner, especially if you're a "native" Arizonan.

BITS AND PIECES

• NEWS AND INFORMATION FROM ALL OVER •

YEW INVENTORIES IN

Both the US Forest Service and the Bureau of Land Management (BLM) have completed inventories of Pacific yew for Oregon and Washington. The counts showed that Forest Service land and BLM land in Oregon contain over 50 million yew trees. Though they favor old growth, yews were also found in clearcuts and dry rocky south slopes.

The BLM sampled 820 plots on their 2 million acres of yew habitat, finding an average distribution of over 5 trees per acre. The Forest Service surveyed 1,875 sample plots in seven National Forests covering perhaps 7 million acres in both states, averaging less than 6 trees per acre.

About 1/6th of these are large enough to harvest, and half or more grow in special management areas like wilderness, riparian areas, recreational sites and spotted owl set asides. Perhaps 10% (5 million) of the trees inventoried are potentially available for harvest. It has been stated that it takes 6 hundred-year-old yews to treat one cancer patient. Simple arithmetic shows that enough taxol could be produced to treat less than one million cancer patients. Demand within the United States would consume this supply in perhaps three years. The United States has about 1/20th of the world's population, so world demand could consume the inventory in a few months. And regrowth to the same size will take 100 years. Yew also grows to smaller size and in lesser abundance in northern California, Idaho and western Montana and is also present on private lands.

The BLM sold 270,000 pounds (green weight) of yew bark in 1992 at 30¢ per pound. Illegal rustling of yew bark has practically stopped. Only one contractor, Hauser Northwest, is allowed to collect it, and only one company, Bristol-Myers-Squibb, is allowed to study the product. The drug company hopes to gain approval for commercial sale of taxol in 1993. Effectiveness of taxol has been shown against several forms of cancer.

LAKE DISTRICT BLM BOTANIST POSITION OPEN

The Lake District Bureau of Land Management will advertise a botanist position in the next month. The position will involve special status species monitoring and project clearances. Pay will range from \$22,500 to \$27,700, depending on experience.

For more information or to obtain a copy of the announcement, contact Robert Lund at (503) 947-2177.

WINTER GARDENING SERIES

The Organic Gardener's Association and the Friends of Salem Public Library are co-sponsoring a winter gardening series this season which will present a good deal of information on native plant use. The speakers should be of interest to NPSO members. All three programs will be Saturdays in the Anderson Auditorium of the Salem Library at 2 pm.

On Jan 23rd NPSO member Wilbur Bluhm will give a slide presentation on gardening with native plants.

On Feb. 20th Frank Morgan will speak and show slides on ecological land use. He and his wife earn their living from a one acre market garden while they preserve on their farm an adjacent section of Willamette Valley prairie.

The March 13th program will cover organic / low-spray roses, including old garden roses and species roses.

STATE OFFICERS

DIRECTORS..... Bill Hopkins, Jerry Igo, Warren Pavlat, Margie Willis, Carolyn Wright, Peter Zika
 PRESIDENT..... Lisa Croft..... 699 W. 2nd, Prineville 97704; 447-5270
 IMMEDIATE PAST PRESIDENT..... Stephanie Schulz..... 652 W. 10th St. #1, Eugene 97402; 485-1868
 VICE PRESIDENT..... Dan Luoma..... 2912 NW Arthur Ave., Corvallis 97330; 758-8063
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 NOTECARDS..... Nancy Fredricks..... Box 127, North Bonneville, WA 98639; (509)-427-8778

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 UMPQUA VALLEY (Roseburg) Ted Schattenkerk..... 3805 Hwy #42, Winston 97496-9546; 679-6953
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 WM. CUSICK (LaGrande)..... Bob Ottersburg..... PO Box 885 LaGrande 97850; 963-4907

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 KALMIOPSIS EDITOR..... Frank Lang..... 535 Taylor St., Ashland 97520; W-552-6341; H-482-5235

GUIDELINES FOR CONTRIBUTORS

The NPSO *Bulletin* is published monthly as a service to NPSO members and the public. Contributions of all types are welcome.

DEADLINE: Copy is due with the editor by the 10th of each month. Submissions can be in any form. Author's name & affiliation are at the end of the article. Double space between paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide. Formatting assistance is available from your editor. All *Bulletin* articles now go into the new NPSO database via computer. Camera-ready copy is not used, with rare exceptions.

Computer output: The editor prefers articles submitted on Macintosh or IBM disks, or via modem. Contact the editor for details.

Illustrations: Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.

Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.

Scientific Names: Nomenclature should follow *Flora of the Pacific Northwest*, by Hitchcock et al., when appropriate. Use both scientific and common names if possible. *Italicize* genus and species, or underline.

Return of Originals: Submissions are not returned unless requested.

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and changes of address (include old address and zip code) should be sent to the Membership Chair.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Chapter (if known) _____

Address _____

Is this a change of address?

If so, please write your *Old Address* here:

City _____ State _____ Zip+4 _____ - _____

Phone (Home) _____ (Work) _____

City _____ State _____ Zip _____

* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

() New	() Renewal	() Quarter Membership (Sep.-Dec.) \$3.00	() <i>Bulletin</i> Subscription only \$12.00
() Student.....	\$ 8.00	() Sustaining.....	\$ 30.00
() Regular.....	12.00	() Patron.....	100.00
() Family Membership.....	18.00	() Life Member	500.00

* CONTRIBUTIONS:

Leighton Ho Memorial Award Fund..... \$ _____
 Rare and Endangered Plant Fund..... \$ _____

* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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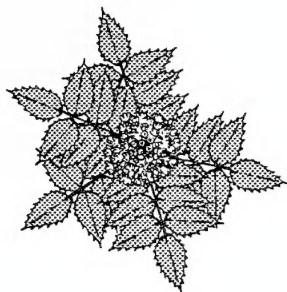
NATIVE PLANT SOCIETY OF OREGON Post Office Box 902, Eugene OR 97402

MEMBERSHIP INQUIRIES: Jan Dobak, Membership, 2584 NW Savier Street, Portland OR 97210-2412

For more Native Plant Society of Oregon information, see the inside back cover.

Send change of address notices
and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair,
2584 NW Savier St.,
Portland, Oregon 97210-2412

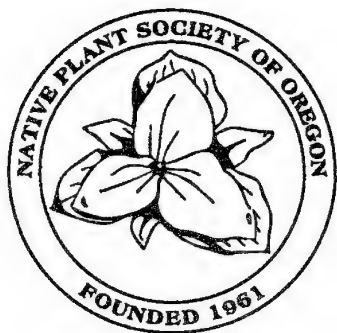
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Bulletin of the
**Native Plant
Society of Oregon**

Dedicated to the enjoyment, conservation,
and study of Oregon's native vegetation

Volume 26 Number 2

February 1993

ISSN 0884-599

State News

The NPSO 1993 Annual Meeting will be in Corvallis on June 5th and 6th. Reserve these dates and stand by for further information!

Chapter News

Blue Mountain

Feb. 1st, Mon.

Meeting, 7:30 pm in Room 130, Morrow Hall of Blue Mountain Community College. Due to a postponement from January due to a toothache, Marilyn Lieuallen will give her presentation of "Wildflowers of the Oregon Trail". For more information call Jerry Baker at (503) 566-3381.

Corvallis

Feb. 8th, Mon.

Meeting at 7:30 pm at the Unitarian fellowship, 2945 NW Circle Blvd., Corvallis. Speaker Paul Hammond will discuss "Conservation of Endangered Butterflies on Native Grasslands in Western Oregon". This talk was originally scheduled for Jan. 11th, but was postponed because of inclement weather. For more information, call Duncan Thomas at 752-6529.

Emerald

Directions to meetings:

From downtown Eugene, take Willamette St. south to Crest Dr., (Right thru Y for Donald, between 32nd & 33rd Ave E.) Turn right (W) on Crest and proceed about 4 blocks. Turn right into Morse Ranch Park parking lot. Walk east to the white farmhouse.

Feb. 20th, Sat.

Work Party 9:00 am. Prune and clear exotic brush in the oak savanna at Morse Ranch Park (see meeting directions; gather in the parking lot). Bring water, loppers, protective clothing and gloves. We'll also consider providing nature trail information and a site plant list.

Feb. 22th, Mon.

Meeting 7 pm. Dr. David Wagner will show slides and talk about "Botany of Alton Baker Park and the future of Alton Baker Park Nature Sanctuary. Pending changes threaten the restoration of a native riparian forest.

Mar. 13th, Sat.

Field Trip 8:30 am. "Mosses of Fall Creek" led by Dr. David Wagner. Meet new friends and impress old ones by rattling off names and ecological details of the lives of the native old growth forest mosses! Meet at South Eugene High School parking lot, across from the YMCA on 20th and Hilyard.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas must be no larger than 12.

High Desert

Feb. 23rd, Tues.

Meeting, 7 pm at the Central Oregon Environmental Center. "Ecology of Oregon Grasslands: What We're Not Hearing From Our Land Managers" by Dr. Joy Belsky, Range Ecologist for Cornell University.

Klamath Falls

For information on the pending formation of this chapter, contact Bruce Rittenhouse (888-9328).

Mid-Columbia

Feb. 3rd, Weds.

Meeting 7:30 pm at the Mosier School. John Kallas of the John Inskeep Learning Center will present a program on edible weeds.

Feb. 27th., Sat.

Workshop / Fieldtrip 1:00 pm at the Mosier School. Dr. Daphne Stone, an expert on lichens, mosses and liverworts, will conduct a workshop on lichen ecology and identification. Following the indoor session, we will take a short hike near the school to test our learning abilities.

Mar. 3rd, Wed

Meeting 7:30 pm at the Mosier School. We are pleased to have Nancy Fredricks speak to us about *Calochortus* this month. After the meeting is a planning session for our upcoming Annual Wildflower Show on Sunday April 11th, 9 am to 4 pm at Mosier School.

North Coast

Field Trip To be announced For information, call Jim Winslow at 842-2246.

Feb 23rd Tues.

Meeting, 7 pm at the Carl Rawe Meeting Room at the Tillamook PUD, 1115 Pacific, Tillamook. For information about the program, call Jim Winslow at 842-2246.

Portland

Feb. 9th, Tues.

Meeting, 7 pm at the First United Methodist Church, 1838 SW Jefferson Street, Portland. Cheryl McCaffrey, Botanist-Plant Ecologist, will present an overview of the BLM Resource Management Plans for Western Oregon. The discussion will include management of rare plants

Winter Study Workshops: For more information about Portland Chapter's Winter Study Workshops, call John or Elizabeth King at 292-6539.

Feb. 6th, Sat.

Workshop Russ Jolley will provide a program on "Hidden Wild Areas in the Columbia River Gorge". The workshop will be held at Audubon House, 5151 NW Cornell Road, Portland, at 10 am.

Feb. 13th, Sat.
at 10 am.

Workshop Maxine Wilson will provide a program on "Having Fun With Container Gardening" featuring native plants. The workshop will be held at Audubon House, 5151 NW Cornell Road, Portland,

Feb. 20th, Sat.

Workshop Dr. Daphne Stone will provide a program on "Identifying Mosses, Lichens and Liverworts". This program is sponsored jointly with Mid-Columbia Chapter and will be held at Mosier School in Mosier at 1 pm. Following the indoor session, we will take a short hike near the school to test our learning abilities. Bring handlens and dress in warm clothing for field trip.

Feb. 27th, Sat.

Workshop Phil Parker of Klein Nursery will provide a program on "Propagating Native Perennials and Bulbs". Some bulbs and plants will be available for sale. The workshop will be held at Audubon House, 5151 NW Cornell Road, Portland, at 10 am.

Siskiyou

Feb. 18th, Thur.

Meeting, 7:30 pm in Room 171, Science Building, Southern Oregon State College. Topic: "Plant Medicine of a Mayan Shaman". Betty Saust, Anthropology Professor at Southern Oregon State College, will discuss her experiences with a medicine man in collecting over 200 plant specimens in the Yucatan. The public is invited. For information, call Linda Knight at 488-3608.

South Coast

For information on the pending formation of this chapter, contact Bruce Rittenhouse (888-9328).

Umpqua Valley

Feb. 11th, Thur.

Meeting, 7:00 pm in Room 311 at the Douglas County Courthouse, Roseburg. Guest speaker will be Bob Craft of Wildlife Safari, who will discuss plans for a conservatory which will feature Pacific Northwest Native Plants. For information call Russ Holmes at 672-4635.

Feb. 13th, Sat.

Field Trip led by Jack Housotter to look at twigs and first blooms. Trip will leave at 8 am from the BLM parking lot, 777 Garden Valley Road. For more information, call Jack Hausotter (874-2462).

Willamette Valley

Feb. 22nd, Mon.

Meeting, 7 pm in Room 225 of the First United Methodist Church, 600 State Street, Salem. **Please Note, this meeting is on a fourth Monday of the month so we can avoid a holiday conflict!** Margie Willis will give a slide show on "Tropical Fruits and Flowers". Margie has participated in research and has travelled extensively in Central America. For more information, call Kathy Connelly at 327-1212.

Mar. 15th, Mon.

Meeting, 7 pm in Room 225 of the First United Methodist Church, 600 State Street, Salem.. Jerry Igo, an active Mid-Columbia Chapter NPSO member, will present a video on "Showy Wildflowers of Oregon". For more information, call Kathy Connelly at 327-1212.

William Cusick

For information, call Bob Ottersburg at 963-4907.

Welcoming Our New Members....

The following are the new NPSO members for the period from November 2nd to January 2nd, 1993:

At Large

Doug & Robin Finch
Sylvia Gindele
Barry Glick
Karl E. Holte
Beth Horn

Blue Mountain

Helen Adams
Lenore Barkan

Corvallis

George & Dorothy Burt
Karen Dunham

Emerald

Penny Brown

High Desert

David Ashwill
Mary L. Hanson
Dave Langland
Mike & Brenda Simpson

Mid-Columbia

Laura Tesler

North Coast

Judy Schwartz

Portland

Dr. & Mrs. Michael T. Brodeur
Liane M. Brown
Ellie Godfrey
David Pivorunas
Jennie Tucker

Siskiyou

Dan Freeman
Joyce Schillen

Umpqua Valley

Cindy Cripps
Ben J. Fawver
Estella Morgan
Tim Rodenkirk
Louise Voyles

Willamette Valley

Jennifer Butler
Robin L. Hansen
Erika Moseley
Robert L. Peacock

William Cusick

Randy Krichbaum
Roger Mongold

The Plant Puzzle

Sponsored by the Siskiyou Chapter

There is an unusual dicot native to Oregon with radially symmetrical three-petaled flowers and pinnate leaves. (It is not an aquatic plant.)

Do you recognize this native plant? The first person to give the correct scientific name will win a prize.

Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Place #1
Corvallis OR 97330

Bruce Newhouse of Eugene was the first to solve the January puzzle: *Botrychium virginianum*, Virginia Grapefern.

Portland Chapter Changes

John King, President of the Portland Chapter, announces with regret the resignation of George Lewis from the office of Vice President in charge of field trips and study classes. The Society expresses great appreciation for the leadership George has rendered through many terms holding major offices over the past 25 years and his being an inspiration to fellow members to study our Oregon heritage of native plants. He will be succeeded by the Chapter Board's appointment of Elizabeth Handler-King to serve the remainder of his term.

TWENTY-EIGHT OREGON PLANTS TO RECEIVE FEDERAL PROTECTION

Environmentalists received a wonderful holiday gift in the waning days of the year and of the Bush administration when, on December 15, the Biodiversity Legal Foundation announced an out-of-court settlement of a lawsuit against the federal government which will result in the listing as Threatened or Endangered of nearly 400 species of U. S. plants and animals, including at least 28 Oregon plants and one Oregon fish, by no later than September, 1996.

The lawsuit was brought last summer by a consortium of environmental groups and individuals including The Fund for Animals, the Defenders of Wildlife, In Defense of Endangered Species, and individual activists including especially Jasper Carlton of Colorado and others from Montana, Florida, Alabama, Arizona, Washington and Vermont. Being sued were Manual Lujan, Bush's Secretary of the Interior, and John Turner, Director of the U. S. Fish and Wildlife Service. The suit targeted the indefensibly slow pace of the federal listing process. As part of the final settlement, the defendants agreed that the government will now begin listing approximately 400 domestic species of Category 1 plants and animals, many of which face imminent extinction and have been waiting for federal protection for well over a decade. According to Jasper Carlton, "This settlement will result, in the next few years, in a huge increase in the number of species that are protected under the Endangered Species Act. It represents a desperately-needed and long-overdue commitment by the government to take more seriously its obligation to protect our nation's dwindling biodiversity."

Besides the 400 Category 1 plants and animals specifically noted in the settlement's Exhibit A, the agreement calls for the official assignment of 900 to 1,400 more species (Exhibits B and C) to an official listing priority within the next year. These are primarily Category 2 species which the Fish and Wildlife Service has classified as "warranted but precluded," in other words, too busy to review or list! According to Al Manville, senior biologist for Defenders of Wildlife, "The

government's process for listing species has, during the past decade, been an administrative and scientific nightmare. Along with expediting protection of hundreds of species, this settlement will help enormously in the creation of an orderly, sensible system for all listing decisions in the future." The December 15 out-of-court settlement follows similar ones in recent years that added 189 plants in Hawaii and about 50 plants in California to the federal endangered species list. (Category 1 species are those for which there is "sufficient information" to propose for listing. Category 2 species are those for which the government claims there is "insufficient information.")

Here in Oregon, the biggest impact of the settlement seems to be to increase by over ten-fold the number of Oregon rare and endangered plants which will receive federal protection. Since the Federal Endangered Species Act was passed in 1973, that is 20 years ago, Oregon botanists have succeeded in winning federal listing for only three species: *Lomatium bradshawii*, *Mirabilis macfarlanei* and *Stephanomeria malheurensis*. As my colleagues and students know, I have often grumbled over the slowness of federal listing, pointing out that at the rate of 3 species in 20 years it would take over 650 years for Oregon's 100 or so rare plants to receive the protection they need to avoid extinction! Now, at least 28 species will be added by 1996, giving Oregon a total of over 30 listed plant species in the next 3 years. And, it seems certain that the listing of many other candidate species will be expedited under the terms of this ground-breaking settlement. Further, the agreement also formalizes a U. S. Fish and Wildlife Service commitment to emphasize, where possible, multiple species listings and / or proposals that address entire ecosystems.

Before the December 15 settlement, the Native Plant Society of Oregon, along with its co-petitioners the Portland Audubon Society, Oregon Natural Desert Association, Concerned Citizens for Responsible Mining and Oregon Natural Resources Council authorized a Eugene attorney to file a 60-day notice of intent to sue the Department of Interior over the failure to list 7

rare plants of eastern Oregon. (See NPSO *Bulletin*, January, 1993, p. 5). Three of these plants, all 7 of whose listing packages were submitted to the USF&WS in October, 1991, are noted in Exhibit A of the present settlement. Two are on Exhibit B, and the other two are not included as part of this settlement, and it may be that NPSO will wish to contact the Fish and Wildlife Service soon with requests for information regarding the status of these two species. Also unclear is the fate of other Oregon plants whose listing packages have been making their glacially slow way through the federal process. Among these latter are *Sidalcea nelsoniana*, *Astragalus applegatei* and *Botrychium pumicola*. These species also are not named in the settlement, and NPSO should be in touch with the USF&WS to learn how soon we can expect them to be listed.

In our pleasure over this sudden and unexpected blasting of the federal listing log-jam, we must not lose sight of the fact that opponents of the Endangered Species Act are still dedicated to weakening the Act when it comes up for re-authorization during the next legislative session. Even though most of the 400 species which will be given federal protection under this settlement will have little impact on logging, agriculture or industry, the agreement itself has further enraged these opponents who are using it as a rallying cry to concentrate efforts to undermine the Act. Those of us who care about the disappearing plants, animals and ecosystems of Oregon and the country must send the new Clinton administration two very important messages: (1) That we strongly support the Endangered Species Act and its goal of conserving the biodiversity of our great land; and (2) that we also support adequate funding for the U. S. Fish and Wildlife Service so they may proceed with the development of recovery plans for the newly-listed species. Please write to President Clinton, Vice-President Gore, Secretary of the Interior Bruce Babbitt, and your senators and Congresspeople today!

The 28 Oregon plants whose names appear specifically in Exhibit A of the settlement are:

Amsinckia carinata, Malheur Valley Fiddleneck. (Borage Family.) Malheur County.
Artemisia campestris var. *wormskioldii*, Northern wormwood. (Aster Family.) Sherman County & Washington State.
Astragalus mulfordiae, Mulford's milkvetch. (Pea

Family.) Deschutes and Klamath Counties.
Castilleja levisecta, Golden paintbrush. (Figwort Family.) Linn, Marion and Multnomah Counties and Washington State and British Columbia.
Delphinium pavonaceum, Peacock larkspur. (Ranunculus Family.) North Willamette Valley.
Erigeron decumbens var. *decumbens*, Willamette Daisy. (Aster Family.) Willamette Valley including Lane County.
Eriogonum chrysops, Golden buckwheat. (Buckwheat Family.) Malheur County.
Fritillaria gentneri, Gentner's fritillaria. (Lily Family.) Jackson and Josephine Counties.
Hackelia cronquistii, Cronquist's stickseed. (Borage Family.) Malheur County.
Haplopappus radiatus, Snake River Goldenweed. (Aster Family.) Baker and Malheur Counties and adjacent Idaho.
Hastingsia bracteata, Large-flowered rush-lily. (Lily Family.) Eight-dollar Mountain, Josephine County.
Howellia aquatilis, Howellia, (an annual aquatic plant). (Campanula Family.) Western Oregon, Washington, California, Idaho, Montana.
Lilium occidentale, Western lily. (Lily Family.) Coastal in Coos and Curry Counties and California.
Limnanthes floccosa var. *pumila*, Dwarf meadow-foam. (Limnanthes Family.) Jackson County.
Lomatium cookii, Agate Desert Lomatium. (Parsley Family.) Jackson and Josephine Counties.
Lomatium erythrocarpum, Red-fruited Lomatium. (Parsley Family.) Baker County.
Lomatium greenmanii, Greenman's lomatium. (Parsley Family.) Wallowa County.
Luina serpentina, Colonial luina. (Aster Family.) Grant County.
Lupinus aridus ssp. *ashlandensis*, Mt. Ashland lupine. (Pea Family.) Mt. Ashland.
Mentzelia mollis, Smooth mentzelia. (Blazing-star Family.) Malheur County, Idaho and Nevada.
Oenothera wolfii, Wolf's evening primrose. (Onagraceae Family.) Curry County and California.
Plagiobothrys hirtus, Hairy popcorn flower. (Borage Family.) Douglas County.
Pleuropogon oregonus, Oregon semaphore grass. (Grass Family.) Lake and Union Counties.
Ranunculus reconditus, Dalles Mountain buttercup. (Ranunculus Family.) Wasco County and Washington State.
Senecio ertterae, Ertter's senecio. (Aster Family.) Malheur County.

Silene douglasii var. *oraria*, Cascade Head catchfly. (Caryophyllaceae Family.) Tillamook County.

Silene spaldingi, Spalding's campion. (Caryophyllaceae Family.) Wallowa County and Washington, Idaho and Montana.

Thelypodium howellii var. *spectabilis*, Howell's spectacular thelypody. (Mustard Family.) Baker, Malheur, Union Counties.

—Rhoda Love
Emerald Chapter

Athyrium felix-femina →
Lady fern

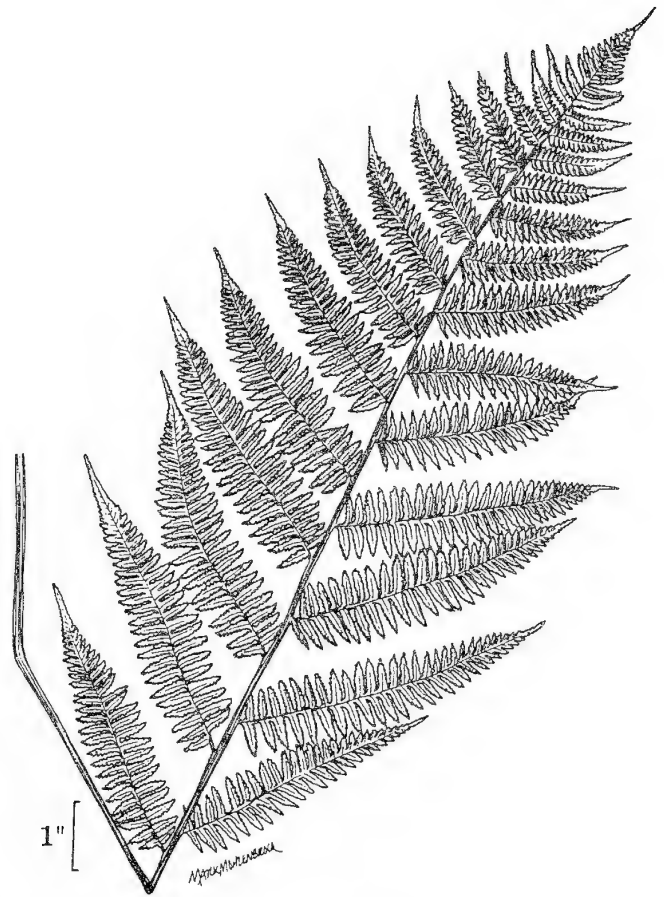
Drawn by Mark Mohlenbrock
From Western Wetland Flora
Field Office Guide to Plant Species 1993

BOOK REVIEW: ENDURING SEEDS

by Gary Paul Nabhan,
North Point Press, 1989

This is a fascinating book. Its 180 pages are devoted to stories of attempts to document and conserve the irreplaceable genetic resources that indigenous peoples around the globe have developed over thousands of years. Nabhan brings a sound biologic background to his task. His solid science is coupled with considerable skill as a storyteller and as an advocate for the preservation of global biological diversity as essential to the ongoing existence of mankind.

Chapters of particular interest deal with the Anazasi occupation of the Chaco Canyon area. He points out that although the Anazasi left the area 800 years ago there is evidence that the vegetation has not yet recovered from their agricultural practices. Archaeologists have recorded more than 100 species of wild plants historically managed by the puebloan peoples and another fifteen species that were encouraged by semi-cultivation. A recurring theme is the point that "traditional farmers realize that the source of their well-being resides as much in the untended margins of their fields as in the rows of crops they have sown".



Other interesting passages deal with potatoes in Peru, maize in Mexico, the blue corn of the Hopi, Hidatsu beans in the Northern Plains, wild rice in Wisconsin, serpentine endemic sunflowers in California, and the Okeechobee gourd in Florida. In the latter instance, peat soils which supported the gourds have deteriorated from a depth of 11 feet in 1912 to less than four feet today under intensive and unsustainable sugar cane cultivation.

Scattered throughout the book are rich interactions with tribal peoples who have managed to maintain a slim link with their antecedent cultures. Nabhan points out that "Sometimes what has long kept our cultigens and even our peopled landscapes healthy and tolerable is now disappearing. That valuable entity is wildness. If it is lost from the world around us, we will lose something within ourselves as well." I think he is right and has done a superb job of presenting his concerns. I highly recommend this book to any NPSO member interested in these issues.

—Stu Garrett
Eastside Conservation Chair

WHAT DO NATIONAL FORESTS AND NATIVE PLANT SOCIETY MEMBERS HAVE IN COMMON?

ANSWER: CELEBRATING WILDFLOWERS!

Last summer across Washington and Oregon members of the Native Plant Society of each state volunteered their time to lead walks on National Forests to Celebrate Wildflowers. It was a first for the Forest Service and it looks like it won't be the last. Over 900 people participated in 79 walks on the National Forests with another 685 learning about our wildflower resources at 26 slide programs. Thirty-one National Forest cooperators, including several Native Plant Society chapters, volunteered 1,060 hours of their time and \$6,765 of materials. Even as you read this, plans are in the works for Celebrating Wildflowers in 1993.

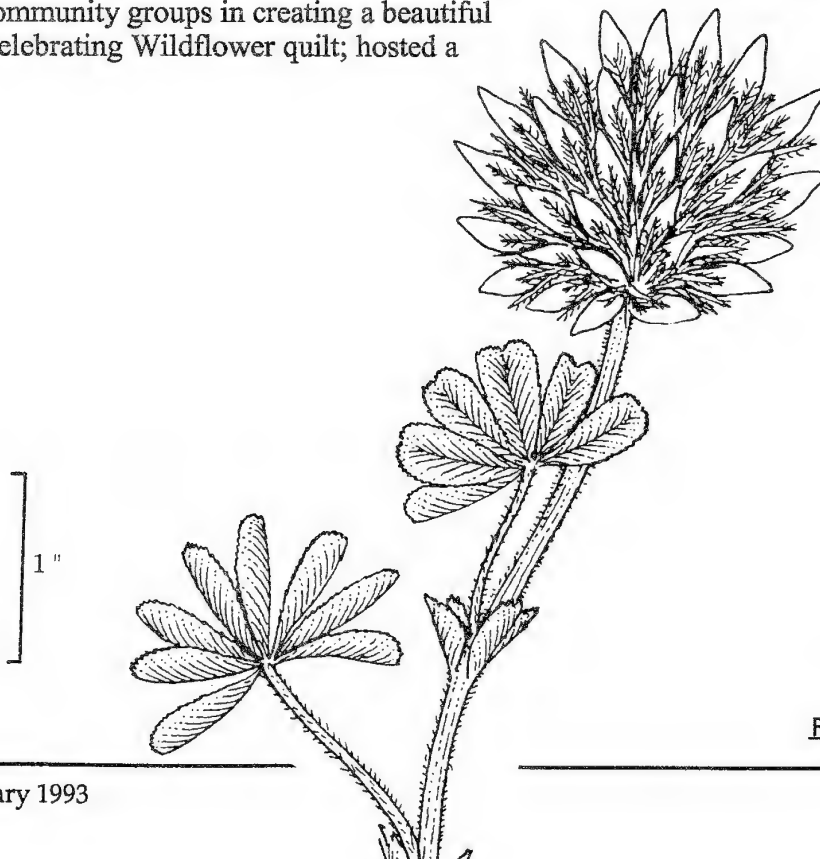
But first, here are some 1992 highlights which illustrate the variety of Celebrating Wildflowers activities:

- The Oregon State Office of the Bureau of Land Management participated in presenting 30 walks for 750 people, 8 auto tours for 315 people and 12 slide programs for 610 people.
- The Mount Baker-Snoqualmie National Forest cooperated with 22 businesses and community groups in creating a beautiful Celebrating Wildflower quilt; hosted a

Celebrating Wildflowers Festival (including an evening of live bluegrass, BBQ and speakers on local wildflowers); and published a Celebrating Wildflowers Forest Newsletter with a printing of 10,000 copies.

- Karl Urban's wildflower drawings were circulated in thousands of wildflower coloring books.
- Thousands of people viewed over 30 Celebrating Wildflowers displays at county fairs, Forest Service offices, visitor information centers, chambers of commerce, libraries, botanical gardens and ski resorts.
- A regional wildflower video was viewed by thousands.
- Staff from the Deschutes, Malheur and Ochoco National Forests contacted over 1,000 children through wildflower programs.
- Two photography displays focused on Forest wildflowers.
- A pamphlet, *Common Plants of the Winema National Forest*, was printed.
- Plant identification signs appeared along a Wallow-Whitman National Forest trail and around the Supervisor's Office at Olympic National Forest.

—Kathy Ahlenslager



Trifolium macrocephalum
Big-head clover
Drawn by Mark Mohlenbrock
From Western Wetland Flora

Field Office Guide to Plant Species 1993

OREGON DUNES NATIONAL RECREATION AREA TO PUBLISH DRAFT ENVIRONMENTAL IMPACT STATEMENT

The Oregon Dunes National Recreation Area (ODNRA), on the Siuslaw National Forest, is revising its management plan. The draft Environmental Impact Statement (DEIS) will be published in spring, 1993, at which time the 90-day public comment period begins and work on the final environmental impact statement commences.

Eight alternatives were developed based on issues and concerns raised early in the planning process. The following issues surfaced during the public scoping process: off-road vehicle recreation, non-motorized recreation, interpretation, facilities, roads and trails, vegetation removal, fish and wildlife, wetlands, wild and scenic rivers, and research natural areas. The DEIS will describe the alternatives in terms of these issues.

The alternatives differ in how they address the issues, and, ultimately, their effects on plant species and vegetation communities. For example, the alternatives range from closing the entire ODNRA to off-road vehicles to opening more of the area to off-road vehicles. The effects on the botanical resources depend on the final alternative selected.

Some of the ways the alternatives will affect the future of the ODNRA botanical resources include the type and level of recreation, the degree of non-native vegetation management, and the establishment of Research Natural Areas (RNAs).

The public scoping process identified concerns about controlling the spread of non-native vegetation, especially European beachgrass (*Ammophila arenaria*), an aggressive introduced species which colonizes open sand. Some people want this species controlled in order to create more open sand and maintain scenic resources; others want this species controlled in order to preserve habitat for native sand dune plant species. Each of the alternatives in the DEIS addresses the issue of non-native vegetation management.

Currently, the ODNRA contains two potential RNAs: Tenmile Creek and Umpqua Spit. RNAs have unique biologic or physical attributes that are managed in their natural condition as much as pos-

sible to preserve biologically important ecosystems and processes. They are part of a national network of ecological areas designated for research, education, monitoring and maintenance of biological diversity.

The proposed Umpqua Spit RNA supports the most extensive grass, sedge and rush deflation plain communities on the ODNRA. It also contains several large parabola dunes. However, the proposed Umpqua Spit RNA may not be feasible because of a great deal of private property (former mining claim) within its boundaries. The proposed Tenmile Creek RNA includes all the major dune features, except parabola dunes, existing in what is known as the Umpqua Dunes Scenic Area. It also contains good examples of deflation plains in various successional states, tree islands, stabilized forests, and small fresh water lakes typical of the ODNRA. The alternatives differ in whether or not the two areas are allocated as RNAs.

The time to comment about the potential RNAs is during the 90-day comment period after the DEIS is published this spring. In order for both areas to become RNAs, the final environmental impact statement must allocate them as such. Then, once the management plan is signed, establishment reports will be completed for the area(s) recommended for designation, and the establishment reports are then submitted to the Regional Forester for signing.

This is an important time to give the ODNRA your input about which alternatives and issues are important to you. This management plan will guide the ODNRA for many years to come. To get on the mailing list to receive an executive summary of the DEIS, write or call:

Oregon Dunes National Recreational Area
Siuslaw Nation Forest
855 Highway Avenue
Reedsport, OR 97467
(503) 271-3611

—Katie Grenier,
Siuslaw National Forest

UPDATE — NPSO – ODA INTERNSHIPS AVAILABLE

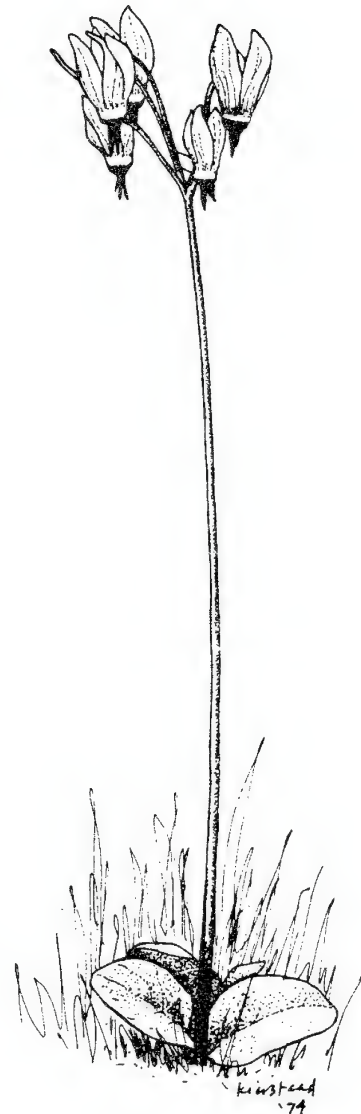
Three summer intern positions are available: two short term (two weeks) and one 3 month position.

- **Short Term.** The Oregon Department of Agriculture's Conservation Biology Program and NPSO expect to co-sponsor two limited duration internship positions for summer 1993 field work. The internships last approximately two weeks (the weeks do not have to be consecutive) during which the intern works with ODA staff conducting research on endangered plants, often in remote parts of the state. Participants must be willing to travel, camp overnight (should have personal camp gear), hike and work outdoors, often in inclement weather. All work associated with these positions will be in the field, and most or all of it will involve overnight stays. Scheduling of the internship is somewhat flexible, and participants receive a \$300 stipend from both ODA and NPSO. Preferred dates for these positions include most weeks in July or August. By September 1993, each intern must write a description of their research activities to be published in the *NPSO Bulletin*.

- **Full Summer.** In addition ODA hopes to offer a 3 month internship position in 1993, based in OSU (in Corvallis) and tentatively set for June 14th through September 10th (the ending date is negotiable). This position will acquaint the intern with several threatened and endangered species and all aspects of field research. The participant will receive a stipend of \$800 per month plus limited expense money, and be expected to accompany ODA field staff on a regular, full-time basis. It is anticipated that roughly 80% of the days will involve field work, much of it including overnight travel (some or all will be camping — you'll need your own basic equipment). In the fall, the individual will prepare a narrative describing his or her 1993 summer experience for presentation in the *NPSO Bulletin*. Funding for this position is not yet secured, but we are very optimistic and expect to have final confirmation no later than March 1993.

Anyone may apply. Deadline is March 19th. If you are interested, please contact:

Tom Kaye or Bob Meinke
Oregon Department of Agriculture
Plant Conservation Biology Department
635 Capitol NE
Salem OR 97310
(503) 378-3810
(503) 737-2317 (OSU)



Dodecatheon hendersonii
Henderson's shooting star
Drawn by Julie Kierstead

BITS AND PIECES

---NEWS AND INFORMATION FROM ALL OVER

FOLIAGE OF SOME ORNAMENTAL YEWS FOUND TO CONTAIN HIGH LEVELS OF TAXOL

While Federal land management agencies are forging full speed ahead with Pacific yew harvest guidelines (on the assumption that our native species is the only viable source of taxol), researchers from The Connecticut Agricultural Experiment Station published findings that show ornamental cultivars of non-native yew can contain in their foliage more than double the levels of taxol found in the bark of our native *Taxus brevifolia*.

In an article in *Frontiers of Plant Science*, Vol. 445 #1, Fall 1992, published by The Connecticut Agricultural Experiment Station, results are given from chemical analysis of foliage of cultivars of English yew, Japanese yew, and hybrids of the two. Levels of taxol contained by each cultivar varied with collection site, and even more significantly, between cultivars. No one species consistently contained high or low levels of taxol.

Pacific yew bark averages 400 parts per million of taxol, and unlike foliage harvest the tree must be cut to harvest. Foliage of the cultivar with highest concentration of taxol, *Taxus X media* 'nigra', contained over 600 ppm of taxol at one site and over 800 ppm from another. As propagation and production of such a cultivar for foliage is done with comparatively rapid and simple agricultural techniques (homeowners in our area can use hardwood cuttings with a high success rate), it may be time to rethink any harvest schedules proposed for the Pacific yew. Ornamental yews, including the 'nigra' variety, are commonly produced as a field crops by Oregon nurserymen, and with a few year's lead time unlimited quantities could be produced. The FDA has not yet approved use of yew species other than Pacific for taxol production.

Taxol's future as a cancer-fighting drug is exciting, but the natural supply of Pacific yew is not up to the potentially enormous demand. It is imperative that an alternative source of the drug be found quickly.

TEMPORARY BOTANIST POSITION

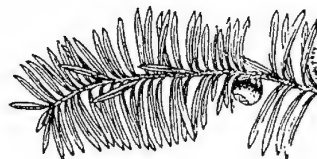
The Roseburg District of the Bureau of Land Management is planning to hire a temporary botanist to work in the rare plant and Research Natural Area programs. The appointment will begin in April and will last for four months. Anyone interested should contact:

Russ Holmes
Bureau of Land Management
777 NW Garden Valley Blvd.
Roseburg OR 97470
(503) 440-4930

ENTHUSIASTIC ABOUT NATURE?

Would you like for others to enjoy the outdoor wonders as much as you do? Begin by influencing youngsters and help start their life-long excitement for nature, a free recreation which can be found outside their own front doors.

Hoyt Arboretum is seeking nature guides for elementary school students. This is a chance to share your enthusiasm, get regular exercise, and learn more about the plants and animals in our northwest forests. Requirements are simple: you must enjoy sharing a forest experience with youngsters and be available 3 to 5 hours a month. Training begins in late winter. Call the Hoyt Arboretum Visitor Center at 228-8733 to find out more about becoming a nature guide.



Taxus brevifolia
Western yew

From Trees - Yearbook of Agriculture 1949

STATE OFFICERS

DIRECTORS.....Bill Hopkins, Jerry Igo, Warren Pavlat, Margie Willis, Carolyn Wright, Peter Zika
 PRESIDENT.....Lisa Croft.....699 W. 2nd, Prineville 97704; 447-5270
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The NPSO *Bulletin* is published monthly as a service to NPSO members and the public. Contributions of all types are welcome.

DEADLINE: Copy is due with the editor by the 10th of each month. Submissions can be in any form. Author's name & affiliation are at the end of the article. Double space between paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide. Formatting assistance is available from your editor. All *Bulletin* articles now go into the new NPSO database via computer. Camera-ready copy is not used, with rare exceptions.

Computer output: The editor prefers longer articles be submitted on Macintosh or IBM disks, or by modem. Contact the editor for details.

Illustrations: Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.

Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.

Scientific Names: Nomenclature should follow *Flora of the Pacific Northwest*, by Hitchcock et al., when appropriate. Use both scientific and common names if possible. *Italicize* genus and species, or underline.

Return of Originals: Submissions are not returned unless requested.

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and changes of address (include old address and zip code) should be sent to the Membership Chair.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Chapter (if known) _____

Address _____

Is this a change of address?

If so, please write your Old Address here:

City _____ State _____ Zip+4 _____ - _____

Phone (Home) _____ (Work) _____

City _____ State _____ Zip _____

* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

() New	() Renewal	() Quarter Membership (Sep.-Dec.) \$3.00	() <i>Bulletin</i> Subscription only \$12.00
() Student.....	\$ 8.00	() Sustaining.....	\$ 30.00
() Regular.....	12.00	() Patron.....	100.00
() Family Membership.....	18.00	() Life Member	500.00

* CONTRIBUTIONS:

Leighton Ho Memorial Award Fund. \$ _____
 Rare and Endangered Plant Fund. \$ _____

* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

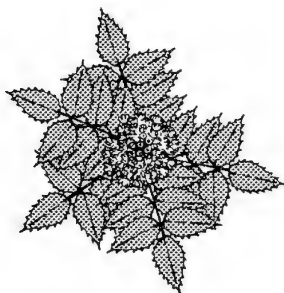
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NATIVE PLANT SOCIETY OF OREGON Post Office Box 902, Eugene OR 97402
MEMBERSHIP INQUIRIES: Jan Dobak, Membership, 2584 NW Savier Street, Portland OR 97210-2412
For more Native Plant Society of Oregon information, see the inside back cover.

Send change of address notices
and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair,
2584 NW Savier St.,
Portland, Oregon 97210-2412

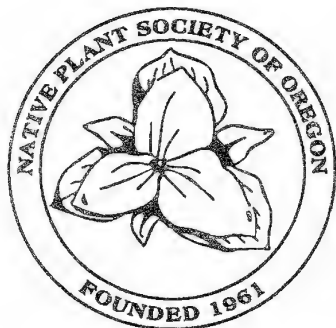
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Bulletin of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation,
and study of Oregon's native vegetation

Volume 26 Number 3

March 1993

ISSN 0884-599

State News

The NPSO 1993 Annual Meeting will be held in Corvallis on June 5th and 6th. Featuring: Friday night social; Saturday field trips to the coast, Mary's Peak and in the Willamette Valley; Saturday night banquet and Sunday Board meeting. Watch this space for further announcements!

Chapter News

Blue Mountain

March 1st, Mon.

Meeting: 7:30 pm in Room 130, Morrow Hall of Blue Mountain Community College. The program will consist of various members showing slides from last summer. For more information call Jerry Baker at (503) 566-3381.

Corvallis

March 8th, Mon.

Meeting: 7:30 pm at the Unitarian fellowship, 2945 NW Circle Blvd., Corvallis. Speaker Paul Hammond will discuss "Conservation of Endangered Butterflies on Native Grasslands in Western Oregon". Third time lucky, folks! For more information, call cKeli Kuykendall at 758-8409 or Esther McEvoy at 754-0893.

April 3rd, Sat.

Field Trip: Visit to the site of the proposed Berg Park (east bank of the Willamette on both sides of the new Highway 20 Bypass). What should be done with natives? Leave from the parking lot across from the Monroe Beanery at 9:30 AM.

April 12th, Mon.

Meeting at 7:30 pm at the Unitarian fellowship, 2945 NW Circle Blvd., Corvallis. Ed Alverson will talk on wet prairies of the Willamette Valley.

Emerald

Directions to meetings:

From downtown Eugene, take Willamette St. south to Crest Dr., (Right thru Y for Donald, between 32nd & 33rd Ave E.) Turn right (W) on Crest and proceed about 4 blocks. Turn right into Morse Ranch Park parking lot. Walk east to the white farmhouse.

Mar. 13th, Sat.

Field Trip : 8:30 am. "Mosses of Fall Creek" led by Dr. David Wagner. Meet new friends and impress old ones by rattling off names and ecological details of the lives of the native old growth forest mosses! Meet at South Eugene High School parking lot, across from the YMCA on 20th and Hilyard.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas must be no larger than 12.

March 22th, Mon.

Meeting 7 PM. Barry Reiswig, Project Leader of Shelden-Hart Mountain National Wildlife Refuge, will give a lecture and slide show titled "Impacts of Grazing on Native Great Basin Plants". What, if any, level of grazing works best for native plants in the Eastern Oregon desert?

High Desert

March 23rd, Tues.

Meeting, 7 PM at the Central Oregon Environmental Center. "History of William Cusick" by Dr. Charlie Johnson, USFS Zone Ecologist.

Mid-Columbia

March 3rd, Wed

Meeting 7:30 PM at the Mosier School. We are pleased to have Nancy Fredricks speak to us about *Calochortus* this month. After the meeting is a planning session for our upcoming Annual Wildflower Show on Sunday April 11th, 9 am to 4 pm at Mosier School.

April 7th, Wed.

Meeting 7:30 PM at the Mosier School. Bob Misley, Botany Professor at Clackamas Community College, will speak about his work on the white rock larkspur found on Little Rock Island in the Willamette River.

North Coast

March 27th, Sat.

Field Trip. Dave Wells, Oregon Department of Forestry, will lead a tour of God's Valley. Meet at 9 AM at the Tillamook People's Utility District office, 1115 Pacific, Tillamook.

March 30th, Tues.

Meeting, 7 PM at the Carl Rawe Meeting Room at the Tillamook PUD, 1115 Pacific, Tillamook. Ed Stiernberg will present the program. For information, call Jim Winslow at 842-2246.

Portland

March 9th, Tues.

Meeting, 7 PM at the First United Methodist Church, 1838 SW Jefferson Street, Portland. Chad Bacon, Range Management Specialist, will present a discussion focusing on the administration of the livestock grazing management plan on BLM public lands starting in 1934 to the present and how BLM modifies its strategies to accommodate a variety of resource uses and products.

March 13th, Sat.

Combined **Field Trip** with the Salem Chapter to Catherine Creek in the eastern Columbia River Gorge of Washington. Enjoy the early blooming *Sisyrinchium*, *Lomatium piperi*, *Fritillaria pudica* and many others. Leave from Lewis and Clark State Park, off I-84 just east of the Sandy River at 8:30 AM. Second meeting location at the Winery in Bingen, WA at 9:30 am.

March 21st, Sun.

Field Trip to Rowena Plateau and Tom McCall Preserve. Join Jean Siddall (636-4633) to identify many familiar wild flowers as well as to enjoy other well known species. Leave from Lewis and Clark State Park, off I-84 just east of the Sandy River at 8:30 AM.

March 27th, Sat.

Field Trip to the Camas Patch on Carson River Road. Explore a newly acquired property in Washington's Columbia Gorge Scenic Area. See extraordinary views of the Columbia River as well as beautiful wildflowers. Leave from Lewis and Clark State Park, off I-84 just east of the Sandy River at 8:30 AM.

April 4th, Sun.

Field Trip to The Dalles Mountain. Stroll through this Columbia Hills wildflower area east of Lyle, WA in Klickitat County high above the Columbia. Leave from Lewis and Clark State Park, off I-84 just east of the Sandy River at 8:30 AM. A second meeting location will be at the Junction of the north end of The Dalles Bridge and SR-14 at 10 am. Leader is Elizabeth King (292-6539).

Siskiyou

March 18th, Thur.

Meeting, 7:30 PM in Room 171, Science Building, Southern Oregon State College. Marty Luther will present a slide show on the vegetation of Indonesia. The public is invited. For information, call Linda Knight at 488-3608.

South Coast

March 20th, Sun.

Field Trip / Work Party. Meet at Ophir Rest Area between Port Orford and Gold Beach at 10 AM. We will be pulling and digging European beachgrass. Bring leather gloves and rake (optional). Bring a dish (main dish, salad or anything) for the potluck around 4 pm for all participants. See accompanying article (P.). If you are interested please call Bruce Rittenhouse at 756-100 (work) or 888-9328 (home).

April 17th, Sat.

Field Trip / Work Party. Second beachgrass party.

May 12th, Weds.

Organizational Meeting at 7 pm in North Bend High School. Joint NPSO / Cape Agago Audubon meeting. Bruce Rittenhouse, Botanist with the Coos Bay BLM, will present a slide show on "Wildflowers of New River ACEC". This will be an organizational meeting to start a new NPSO chapter on the south coast. All current NPSO members from the area are encouraged to attend and bring a friend. For more information call Bruce Rittenhouse at 756-0100 (work) or 888-9328(home).

Umpqua Valley

March 11th, Thur.

Meeting, 7:00 PM in Room 311 at the Douglas County Courthouse, Roseburg. Bring early bloomers to identify and discuss. Please note habitat while you are collecting. For information call Ted Schattenkerk at 679-6953.

March 13th, Sat.

Field Trip to see early spring flowers on the valley floor. Leave at 8 AM from the BLM parking lot, 777 Garden Valley Road. For more information, call Miuldred Thiele at 673-5397.

Willamette Valley

March 13th, Sat.

Field Trip. A joint trip with the Portland Chapter to Catherine Creek in the Columbia Gorge. For details and departure time from Salem, call 371-1025.

March 15th, Mon.

Meeting, 7 PM Room 225 of the First United Methodist Church, 600 State Street, Salem. Jerry Igo, an active Mid-Columbia Chapter NPSO member, will present a video on "Showy Wildflowers of Oregon". For more information, call Kathy Connelly at 327-1212.

April 19th, Mon.

Meeting, 7 PM in Room 225 of the First United Methodist Church, 600 State Street, Salem. We will be privileged at this meeting to have Kareen Sturgeon, Melissa Peterson, and JerLynn Peck present "An Arctic Dream Come True: Botanizing in Alaska by Bush Plane and Canoe". For more information, call Kathy Connelly at 327-1212.

William Cusick

March 9th, Tue.

Meeting, 7 PM, Baker School District 5J Building, 2090 4th St., Baker City. Regular business meeting with discussion of restoration and native landscaping projects. Paula Brooks will discuss the Sumpter Railroad interpretive project.

Welcoming our New Members

The following are our new members over the period from Jan. 3rd to Feb. 7th, 1993

Blue Mountain

Michael Rohde
Joan Soderstrom

Corvallis

Thomas J. Hanson
Alan Kapuler

Emerald

Susan Applegate
Dawn Jochens
Sally Nunn

High Desert

Larry Balaentine
Lee A. Benson
Howie Brounstein
Barbara S. Sharp

Mid Columbia

Patricia Lessly

North Coast

Kris Woolpert

Portland

Bob & Elizabeth Bayley
Pat Carter
Shelley Fluter
Nolan W. Kiner
Colin MacLaren
Jim Marangoni & Lisa Snyder
Susan Peter
Diane VanDyke

Siskiyou

Wendy Campbell
Jeanette Williams

Umpqua Valley

Samuel W. Lee
Burton Crofut
Jennifer Sperling

Willamette Valley

Carole Crowley
Charlotte Keasey

William Cusick

John D. Bodfish
Kippy Roberson

Has Your NPSO Membership Expired?

If there is a "92" on the top of your address label, this is the last *Bulletin* you will receive....until you send in your membership renewal for 1993.

BOVINES BEATEN BACK AT BUFORD

After years of beefing about grazing damage at 2250 acre Buford Park near Eugene, native plant and recreation interests finally rounded up enough support to corral the last of the cattle. The land was purchased in 1972 purchased with Land and Water Conservation Fund money expressly for recreation and natural values but has been grazed non-stop for 18 years under an unusual no-fee lease arrangement. As the January 28th editorial in the Register-Guard put it, "parks are for people, not livestock. Grazing brings no substantial benefit to Lane County". The Guard served notice to horseback riders that they needed to clean up their act too or be next to go. The park is the only sizable example of the Willamette Valley foothill ecosystem under public ownership.

Meanwhile back at the ranch, the Emerald Chapter NPSO polled its members and agreed to two spring field trips to help develop a plant list and brochure for the site. Ed Hoover is chomping at the bit to key out the grasses and possibly set up long-range monitoring sites. Tom Kaye will be continuing his studies of *Lomatium bradshawii* and Steve Acker may initiate a study of the *Ceanothus cuneatus* community. Mari Baldwin will look for more *Silene campanulata* ssp. *glandulosa* and coordinate a better trail system (including some closures). Few people had wanted to botanize the area with the cows present.

During the decades of neglect and disturbance, numerous invasive exotics have established beach-heads. It is not expected that the County or ex-permittee will assume responsibility for restoration of the damage. One concern is that aliens such as Scotch broom, English hawthorn, thistle, and Himalayan blackberry will spread out and become further entrenched. In fact, certain elements in county government hope this will happen, to provide a somber lesson in "wise use". However, the Friends of Buford Park have responded by arranging the first (of many dozen) official work parties for February 13th and March 20th of this year. Find their numbers below.

Parties unknown have already set to work on the bad actors along the summit trail, sawing down Scotch broom. On or about the night of February 3, internal barb wire fencing was cut and a large number of metal fence posts disappeared. A grain feeding station in the backcountry was vandalized around the same time. While no doubt well-intentioned, these actions are deplorable and set an unfortunate precedent. (Some people want to eradicate poison oak, an Oregon native.) Citizens wishing to help should work within the system and coordinate with either Chris Orsinger of the Friends of Buford Park (687-8352) or myself at NPSO (484-0669).

Tom Pringle
Emerald Chapter

NPSO WINDOW STICKERS

The NPSO window stickers are decals featuring our trillium logo in green with an opaque white background. They are made to go on the inside of your car or other windows. Order them from the High Desert Chapter NPSO, c / o Stu Garrett, at 21663 Paloma Drive, Bend OR 97701. They are \$1 each and minimum order is 5.

The NPSO trillium logo,
used on the window stickers mentioned above.



BEACHGRASS WORK "PARTY"

One group of plant community that has been drastically altered in the last 100 years is the open sand dune communities along the coast. The introduction of European beachgrass (*Ammophila arenaria*) has eliminated much of the open sand along the beaches by forming a dense cover that appears to exclude many other species. Plant diversity in dense European beachgrass stands may be halved as compared with adjacent native American dunegrass (*Elymus mollis*) stands (Barbour and Major 1988). Besides the reduction in the native plant component, European beachgrass has affected some bird species, most notably the snowy plover. It is for these reasons that the Coos Bay BLM is proposing a beachgrass removal project at Greggs Creek, about seven miles north of Gold Beach. Other objectives of this project are 1) to monitor for native plant re-establishment and effectiveness of beachgrass removal, and 2) use this as a pilot project to determine effectiveness and feasibility of future beachgrass removal efforts.

The work will be done entirely by volunteers. The first work party will take place on Saturday March 20th. We will meet at Ophir Rest Area at 10 AM. Other work "parties" are scheduled for April 17th, June 12th, and October 9th. We plan to dig and pull out beachgrass from ten plots with shovels and picks. This will be very labor intensive. Other work will consist of removing the beachgrass for burning. All a volunteer needs to bring is a pair of leather gloves, a sturdy back, and a rake (optional). Digging tools will be provided.

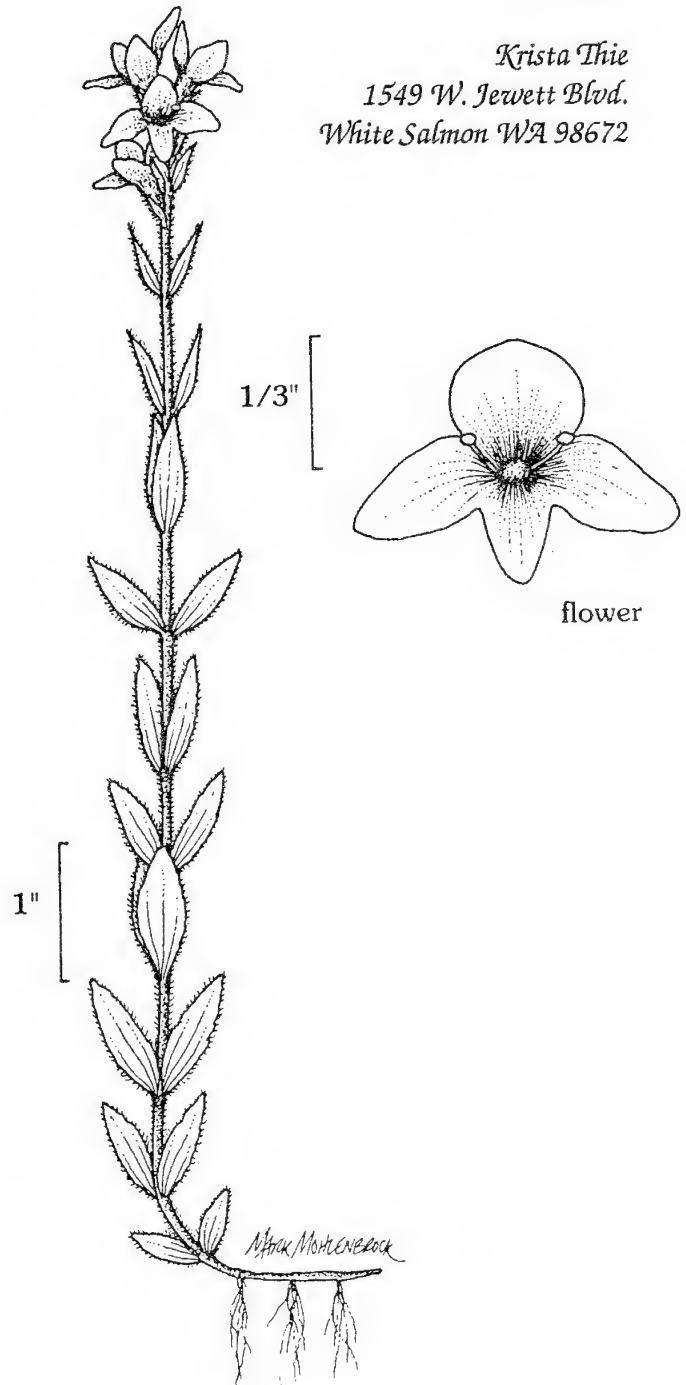
Around 4 PM we will have a potluck dinner at Ophir Rest Area for the hardy participants, so bring a food dish to share. If you are interested in participating, or for information about the project, contact Bruce Rittenhouse (work 756-0100, home 888-9328).

Dear NPSO members,

Does anyone have black and white photographs of native plants? I'm looking for 10 to 20 for possible publication in a book I'm writing on northwest medicinal plants. Thanks for any assistance.

Contact:

Krista Thie
1549 W. Jewett Blvd.
White Salmon WA 98672



Veronica wormskjoldii

Alpine Speedwell

Drawn by Mark Mohlenbrock
From Western Wetland Flora-

Field Office Guide to Plant Species 1993

BITS AND PIECES

---NEWS AND INFORMATION FROM ALL OVER

VOLUNTEERS NEEDED FOR US FISH & WILDLIFE SERVICE

Spend an enriching and rewarding summer as a field research assistant in Nevada or Oregon's Great Basin desert. Majority of work will involve habitat sampling in a variety of unique riparian and upland ecosystems. Other experiences will include pronghorn, sage grouse, predator and waterfowl surveys.

The Service will provide a \$15 a day stipend, housing, transportation on the refuge, and equipment. Some camping in primitive conditions required. Two positions available, starting early May / June and continuing through August / September. Internship possibilities exist.

Qualifications: Background in wildlife, range and / or ecology desirable. Field experience preferred. Must be willing to work in remote areas, possess enthusiasm for field work, and work well as a team member. Send résumé and letter of interest by April 1st to:

William H. Pyle
Sheldon-Hart Mountain Refuges
PO Box 111
Lakeview OR 97630
(503) 947-3315

BUREAU OF LAND MANAGEMENT PUBLISHES STRATEGY FOR RARE PLANT MANAGEMENT

Rare Plants and Natural Plant Communities
A Strategy for the Future

US Government Printing Office: 1992-668-547

Available from:

Cheryl McCaffrey
BLM Oregon State Office
PO Box 2965
Portland OR 97208
(503) 280-7050

This publication publicizes the Bureau's "resource opportunities and actions required to accomplish the national goals and objectives for special status plants and natural plant communities as outlined in *Fish and Wildlife 2000*", a previously published strategic plan derived from earlier studies.

The information given is national in scope. The Bureau describes a variety of goals and strategies for management of the approximately 1,100 special status plants which have been identified on BLM-controlled land, as well as for the native plant communities there. The magazine-sized booklet gives a historical overview of the BLM botany program and its status as of 1990.

Those interested in the work being done by the BLM to carry out their mandate to protect our rare and endangered plants and ecosystems should consider this publication required reading.

This Season at Tom McCall Preserve

The Nature Conservancy is again providing naturalist-guided tours at the spectacular Tom McCall Preserve on Rowena Plateau. This area combines one of Oregon's best wildflower displays with dramatic Columbia River Gorge vistas and landforms created by past catastrophic geologic events. A volunteer naturalist will be available at the preserve weekends March 20th through May 30th, 11am through 4pm.

Hikers are reminded that conditions on the plateau are primitive. No restrooms are available, and pets are not allowed. Please preregister for all events. Call 228-9561.

If you would like to volunteer as a naturalist at Tom McCall, training is available Sat., Mar. 13th at 11am. Call The Nature Conservancy at 228-9561 for more details.

March 6th: weeding & planting at the Native Plant Garden.
April 3rd, 17th & May 1st & 15th: wildflower walks at 1 PM
April 24th: birding walk at 8:30 AM.
May 1st, June 19th & 24th: weed pulls.

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Illustrations: Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.

Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.

Scientific Names: Nomenclature should follow *Flora of the Pacific Northwest*, by Hitchcock et al., when appropriate. Use both scientific and common names if possible. *Italicize* genus and species, or underline.

Return of Originals: Submissions are not returned unless requested.

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and changes of address (include old address and zip code) should be sent to the Membership Chair.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Chapter (if known) _____

Address _____

Is this a change of address?

If so, please write your *Old Address* here: _____

City _____ State _____ Zip+4 _____ - _____

Phone (Home) _____ (Work) _____

City _____ State _____ Zip _____

* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

() New	() Renewal	() Quarter Membership (Sep.-Dec.)	\$3.00	() <i>Bulletin</i> Subscription only	\$12.00
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Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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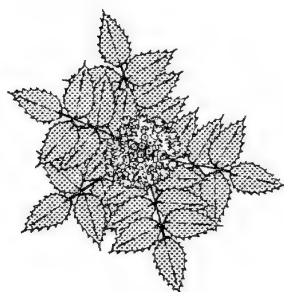
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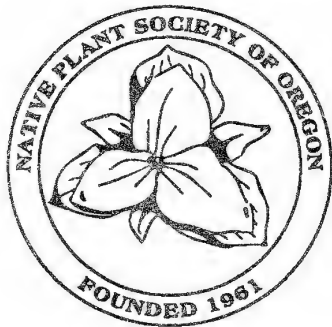
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Bulletin of the

Native Plant Society of Oregon

**Dedicated to the enjoyment, conservation,
and study of Oregon's native vegetation**

Volume 26 Number 4

April 1993

ISSN 0884-599

State News

- June 4th-6th **The NPSO 1993 Annual Meeting** will be held in Corvallis on this weekend. More details inside!
- April 3rd, Sat. **NPSO Board Meeting** will be held 10 am in Room 214 of Southern Oregon State College in Ashland. Open to all.

Chapter News

Blue Mountain

For information, contact Jerry Baker at 566-3381.

Corvallis

April 3rd, Sat.

Field Trip: Visit to the site of the proposed Berg Park (east bank of the Willamette on both sides of the new Highway 20 Bypass). What should be done with natives? Leave from the parking lot across from the Monroe Beanery at 9:30 am

April 10th, Sat.

Field Trip: A joint field trip with the local Sierra Club Chapter to Finbley Wildlife Refuge to look at the early spring wildflowers. Meet at 9:30 am at the Monroe Beanery to carpool to the Woodpecker loop trail. An easy walk, children welcome, bring raingear and a snack. Leader is Esther McEvoy (754-0893).

April 12th, Mon.

Meeting: 7:30 pm at the Unitarian fellowship, 2945 NW Circle Blvd., Corvallis. Ed Alvorson will talk on "Nature Conservancy Preserves in the Willamette Valley".

Emerald

Directions to meetings: From downtown Eugene, take Willamette St. south to Crest Dr., (right thru "Y" for Donald, between 32nd & 33rd Ave. E.). Turn right (W) on Crest and proceed about 4 blocks. Turn right into Morse Ranch Park parking lot. Walk east to the white farmhouse.

Mar. 27th, Sat

Field Trip: Early spring flora and native vegetation communities of Doris Ranch Park, southwest Springfield, OR. Meet 1 pm at Doris Ranch parking lot. Contact Jennifer Dimling, trip coordinator at 343-3242 for directions and details.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas must be no larger than 12.

- April 10th, Sat. **Field Trip:** Buford Park/Mt. Pisgah plant inventory and spring wildflower party. Meet at 9 am at South Eugene High School parking lot, near southwest corner of 19th and Patterson St., or 9:30 at Summit Trail gate, Mt. Pisgah. Contact trip coordinator, Tom Pringle at 484-0669 for details.
- April 26th, Mon. **Meeting :** 7:00 pm. Dr. Aaron Liston, curator of O.S.U. herbarium, will give a lecture / slide show titled "*Astragalus*, a wide angle & macro lens view." Dr. Liston has studied species relationships in loco weeds of the *A. umbraticus* complex with a special interest in similarities between Western North American and North West China species.

More information? Call Bruce Newhouse (president) 343-2364 or Ethen Perkins (programs) 345-3944.

High Desert

For information, contact Cindi O'Neil at 389-3085.

Mid-Columbia

- April 7th, Wed. **Meeting :** 7:30 pm at the Mosier School. Bob Misley, Botany Professor at Clackamas Community College, will speak about his work on the white rock larkspur found on Little Rock Island in the Willamette River.
- April 18th, Sun. **Annual Wildflower Show:** 9 am to 4 pm at the Mosier School. Previous reports of a April 11th date are incorrect. This Show with the unique east Gorge flora should not be missed.
- May 5th, Wed. **Meeting:** 7:30 pm at the Mosier School. A panel discussion on noxious weeds. Do we pull, spray, or bug 'em? Come listen to experts charged with managing this "growing" problem.

North Coast

- April 17th, Sat. **Field Trip:** Hike to the top of Neah-Kah-Nie Mountain. Meet at 9 am at Tillamook PUD, 1115 Pacific, Tillamook. A 5 mile round trip. Brink water and lunch. Trip leader is Jim Winslow (842-4131).
- April 19th, Mon. **Meeting:** This replaces our regular meeting of April 27th. Meet at Christian Church Fellowship Hall, 2203 4th, Tillamook. at noon with the American Association of University Women. Neah-Kah-Nie High School student teacher team will present a program on the Lake Lytle system in Rockaway Beach. A light lunch will be served. For more information, call Jim Winslow at 842-4131.
- May 1st, Sat. **Field Trip:** Peninsula Park on the Trask River. Meet at 10 am at Tillamook PUD, 1115 Pacific, Tillamook. Easy hiking. Bring a lunch. Trip leader is Jim Winslow (842-4131).

Portland

- April 4th, Sun. **Field Trip** to The Dalles Mountain. Stroll through this Columbia Hills wildflower area east of Lyle, WA in Klickitat County high above the Columbia. Leave from Lewis and Clark State Park, off I-84 just east of the Sandy River at 8:30 AM. A second meeting location will be at the Junction of the north end of The Dalles Bridge and SR-14 at 10 am. Leader is Elizabeth King (292-6539).
- April 13th, Tue. **Meeting:** 7 pm at the First United Methodist Church, 1838 SW Jefferson St., Portland. Don Eastman, author and photographer of Rare and Endangered Plants of Oregon, will present an update on his book with a beautiful slide presentation. He will provide an review of his book, showing changes, corrections and additions he would make today if the book was being updated.
- April 17th, Sat. **Field Trip:** Silvas Creek located in east Columbia Gorge. Special plants to observe include *Cynoglossum grande*, *Viola sheltonii*, *Orobancha uniflora*, *Zigadenus venenosus*, several lomatiums and other spring flowers. Leave from Lewis & Clark State Park at 8 am, with a second meeting place at the Winery in Bingen, Washington at 9:30 am. For more information call the Kings at 292-6539).
- April 25th, Sun. **Field Trip:** Weldon Wagon Trail. The early blooming spring flowers give way to beautiful valley views as we ascend an old wagon road out of Husum, WA. Leave from Lewis & Clark State Park at 8 am, with a second meeting place at the west end of the parking area of Hood River Inn at 9:30 am. For more information call the Kings at 292-6539).
- May 1st, Sat. **Field Trip:** East bank of the Deschutes River. This area east of The Dalles offers the chance to observe some desert plants as well as more familiar flowers. Beautiful views of the Columbia River may be enjoyed from a loop trail. Leave from Lewis & Clark State Park at 8 am. For more information call Sara Barnum at 639-3353.

Siskiyou

April 10th, Sat.

Field Trip: Upper Table Rock. Meet 10 am at the Upper Table Rock trailhead (Table Rock Road to Modoc Road—follow signs). Bring lunch and water. For more info, call Barbara Mumblo, trip leader at 770-3953 pager message.

April 15th, Thur.

Meeting: 7:30 pm in Room 171, Science Building, Southern Oregon State College. The public is invited. Sarah Greene, Research Natural Area Scientist for the Pacific Northwest Region, will present a talk on Research Natural Areas in Southwest Oregon and Threats to Management.

April 24th, Sat.

Field Trip: Forest Farm Nursery in Williams—Ray & Peg Prag are well known for their native plant selection and ethics in plant propagation. A great time to explore what they have and maybe pick something up to plant in your garden. Meet at the Medford K-Mart at 9 am near McDonalds, bring a lunch. For more info., call trip leader Barbara Mumblo at 770-3953 (pager message).

South Coast

April 17th, Sat.

Field Trip / Work Party: Meet at Ophir Rest Area between Port Orford and Gold Beach at 10 AM. We will be pulling and digging European beachgrass. Bring leather gloves and rake (optional). Bring a dish (main dish, salad or anything) for the potluck around 4 pm for all participants. If you are interested please call Bruce Rittenhouse at 756-100 (work) or 888-9328 (home).

May 12th, Wed.

Organizational Meeting at 7 pm in North Bend High School. Joint NPSO / Cape Arago Audubon meeting. Bruce Rittenhouse, Botanist with the Coos Bay BLM, will present a slide show on "Wildflowers of New River ACEC". This will be an organizational meeting to start a new NPSO chapter on the south coast. All NPSO members from the area are encouraged to attend and bring a friend. For more information call Bruce Rittenhouse at 756-0100 (work) or 888-9328(home).

Umpqua Valley

April 8th, Thur.

Meeting: 7 pm BLM Building, 777 NW Garden Valley Road, Roseburg. Come join us in an Open House to see what we do on field trips and at meetings. Bring a friend, bring a native plant to ID, or members bring refreshments. We hope to invigorate our UVC with fresh sap.

April 17th, Sat.

Field Trip: See marine conglomerates and early flowers at Irwin and Bushnell Rocks, then to Coos County to see the 338 ft. champion Douglas fir in the Brummet Creek drainage. The tree is about 3 miles NE of Sitkum. Meet at 8 am at the BLM parking lot, 777 Garden Valley Blvd. For information call Russ Holmes at 672-4635.

Willamette Valley

April 10th, Sat.

Field Trip: to Airport Park in McMinnville with Don Eastman to see an unusual trillium—*Trillium Parviflorum* and also *Erythronium oregonum*. Bring your lunch for a picnic in the park afterwards.

April 17th, Sat.

Workshop: Dr Dan Norris has agreed to give us a workshop on the mosses at Silver Falls State Park! Dan has taught moss identification for over 20 years at Humbolt University in northern California. We are indeed privileged to have such an expert teacher for this workshop! No previous knowledge necessary. Dan also knows many of the wildflowers that will be blooming. So, weather permitting, we plan to spend a delightful exploring-time outdoors at this beautiful location. Meet at the main lodge at Silver Falls State Park at 10 am. For more information, call Kathy Connelly at 327-1212.

April 19th, Mon.

Meeting: 7 pm in Room 225 of the First United Methodist Church, 600 State Street, Salem. We will be privileged at this meeting to have Kareen Sturgeon, Melissa Peterson, and JerLynn Peck present "An Arctic Dream Come True: Botanizing in Alaska by Bush Plane and Canoe". For more information, call Kathy Connelly at 327-1212.

William Cusick

April 14th, Wed.

Meeting: 7 pm Forest and Range Sciences Lab, Geckler Drive, LaGrande. Mike McGiness, an Oregon State University Professor of Range Science stationed at the Eastern Oregon State College campus, will present a slide show about poisonous range plants. For information call Bob Ottersberg at 963-9660.

1993 NPSO ANNUAL MEETING

THE 1993 NPSO ANNUAL MEETING SCHEDULE

The 1993 NPSO Annual Meeting will be the 4th, 5th and 6th of June. Please fill out the enclosed registration form by May 15th. Check the May *Bulletin* for more details!

SCHEDULE OF EVENTS:

FRIDAY JUNE 4TH

Registration and check-in to OSU housing between 6 & 8 pm at Hawley Hall. A social gathering from 8-10 pm is being arranged with details in the next *Bulletin*.

SATURDAY JUNE 5TH

All day fieldtrips will meet at 8:45 am at the parking lot across from the Monroe Beanery. Half day fieldtrips will meet at 1:00 pm at the same location. Please bring a lunch, water and proper attire. If you need a lunch there is a grocery store next to the Beanery Coffee Shop on Monroe Street.

SUNDAY JUNE 6TH

Breakfast State Board Meeting at a local restaurant to be announced in the next *Bulletin*. There will be a sign-up sheet at the Banquet for those interested in a morning local fieldtrip (for those not going to the Board Meeting).

SATURDAY FIELDTRIPS FOR THE 1993 NPSO ANNUAL MEETING

All scheduled fieldtrips will take place on Saturday, June 5th. We will carpool. Bring a lunch if you are going on an all day fieldtrip. Come prepared for varying weather conditions, including warm clothes, raingear, good walking boots and a hat. Choose from the following list of fieldtrips; state first, second and third preference on your preregistration form. Remember, some of the fieldtrips will be limited in the number of participants. Sign up early for best selection!

HORSE ROCK RIDGE RESEARCH NATURAL AREA

In the Coburg Hills, Horse Rock Ridge overlooks the Willamette Valley. A one hour drive with moderate hiking. High diversity of wildflowers, in a mixture of meadow and forest. Fieldtrip leader will be Dan Luoma.

DELPHINIUM FIELDTRIP

A visit to the local rare *Delphinium pavonaceum* sites around the Corvallis area. Gaylee Goodrich will lead a small group to remnant sites. A *half day fieldtrip* with easy walking.

FINDLEY WILDLIFE REFUGE

A visit to a variety of remnant valley habitats at Findley Wildlife Refuge. Moderate walking to see the different habitats at the refuge. Fieldtrip leader is Ed Alverson.

LOW ELEVATION FOREST

Phil Hayes will lead us through a remnant low elevation old growth forest with easy walking on a one and a half mile loop. The area is a short distance from Corvallis. This is a *half day fieldtrip*.

MOUNT HEBO

This Coast Range site has subalpine grasslands with a rich diversity of flora and fauna including orchids, penstemons and lilies. Driving time 2 hours one way, with moderate walking. Leader is Paul Hammond.

MARYS PEAK

A June wildflower mecca in the Coast Range, with a moderate 2 mile hike through forest, meadow and rock garden. Driving time one hour each way. Leader is Bob Frenkel.

CANDIDATES FOR THE STATE BOARD OF DIRECTORS NPSO 1993 ELECTIONS

The nominating committee is pleased to offer the following candidates for positions on the NPSO State Board of Directors. Ballots are included in this issue of the Bulletin, and must be received by May 5th to be counted. The ballot inserts are preaddressed and only need to be folded along the dotted lines, stamped and taped or stapled to be mailed. Results of the election will appear in the June issue, and those elected will be sworn in at the Annual Meeting in Corvallis on June 6th. Many thanks to all of our candidates!

THE CANDIDATES

For President: Lisa Croft, incumbent
Lisa Croft has a BS from the University of Hawaii, and a MS from the University of Washington. Her thesis was on the Holocene paleoecology of the John Day Basin. She was active in the Botanical Society of Hawaii before moving to southern California to work on the Cleveland National Forest. She has worked as Forest Botanist on the Ochoco National Forest for the last three years.

For Vice-President: Rhoda Love
Rhoda is a botany instructor at Lane Community College in Eugene and former State President of NPSO. She is a past West-side Conservation Chair and present Conservation Co-chair for Emerald Chapter, and an Associate Editor of *Kalmiopsis*.

For Treasurer: Kari Yanskey
Kari earned her BS from Boise State. She is presently the botanist for the North Fork Ranger District of the Umatilla National Forest, and has prior experience working as a seasonal employee. A member of the Blue Mountain Chapter, her interests include general botanizing and learning the native flora.

Julie Knuirowski-Thiel
A member of the Willamette Valley Chapter, Julie is a botanist with the Salem BLM working on the Yamhill Resource Area. She has a biology degree from Western Oregon State College and has done additional post baccalaureate work at Oregon State. She enjoys teaching botany to children.

For Directors-at-Large: 2 year term, vote for 3:
Veva Stansell

Veva has been an NPSOer since 1972 and has previously served on the Board. She is native to Gold Beach and is well known for her knowledge of the interesting and challenging flora of southwestern Oregon. Veva is currently working on the Gold Beach Ranger District. Her interests include any aspect of natural history and photography.

Cathy Jean

Cathy has a BS from Southern Utah University and a MS in Forest Ecology from Utah State. Her Masters thesis was on clonal growth of subalpine fir in Cedar Breaks National Monument in Utah. Her interests include native landscaping. Cathy is interested in helping organize a chapter in the Klamath Falls area. She currently works on the Chiloquin Ranger District of the Winema National Forest.

Christine Lorain-Ebrahimi

Christine received her BS from Oregon State in Botany and MS from University of Idaho in Forest Ecology. Her thesis work was studying the coastal disjunct taxa for the northern Rocky Mountains. Christine has worked with the TNC at Cascade Head and has done contract work in Idaho with the Heritage Program. When in Idaho she was involved with the Idaho Native Plant Society as State Vice-President.

Nancy Wogen

Nancy earned a BS from Oregon State in Wildlife and Vegetation Ecology. She did both vegetation and entomological studies for the Forest Service Research Lab in Corvallis, and for OSU's Oak Creek Lab. Nancy worked as Botanist on the Salem BLM District, and in 1989 was hired by the Eugene District to manage the rare plant and special areas programs. This past year Nancy has served NPSO as Treasurer.

Jenny Dimling

Jenny earned her Masters in Ecology from the University of Oregon. She worked as a contractor for the Oregon Department of Agriculture for a study of *Sidalcea* in the Klamath Region, and is now the Forest Botanist with the Willamette National Forest. She is the past President of the Emerald Chapter, and is their current Treasurer. Jenny's interests include gardening, skiing, hiking and biking.

ON THE WINGS OF MOTHS

An afternoon hike along a small creek has led me through some thick willows into a glorious mountain meadow. The ground is still a bit spongy in spots, but luckily these areas dry out some in the fall, so there's a place to eat lunch without getting wet. As I munch away on my food, I see a brightly striped caterpillar also eating lunch. In fact, there are quite a few of them munching plants all around where I sit. Lying down in the sun to watch the clouds drift by, I wonder about those bugs. What stories could they tell me?

In the seventies, many people were alarmed at the rapid spread of tansy-ragwort (*Senecio jacobaea*). This introduced weed was taking over pastures and poisoning cattle. The scientific community responded by releasing an introduced caterpillar, the cinnabar moth (*Tyria jacobaeae*). This easily identified orange and black striped caterpillar could soon be seen munching away at the tansy-ragwort throughout the Willamette Valley. It is not uncommon to see this plant completely covered with these bugs.

Unfortunately, this insect along wasn't eliminating tansy. Completely eaten plants would resprout later in the season, sometimes even producing flowers and seeds. In response to this news another insect, the tansy flea beetle, was released. This beetle attacks the root system of the tansy. Together these insects are keeping the spread of this introduced weed in control.

At OSU, research was done into other plants the cinnabar moth might eat. It was observed eating the weed groundsel (*Senecio vulgaris*). Certainly no one would mourn the loss of a few of these plants, common weeds in alleys and sidewalk cracks. The cinnabar moth became established in the western interior valleys as the years rolled on.

In time, this moth became acclimated to higher and higher elevations. Over the last few years I have seen these moths on the western slopes of the Cascades as high as 5,500 feet! There are very few introduced weedy *Senecios* at these elevations. Occasionally a lone tansy-ragwort can be spied alongside a logging road. The food of

choice for the moth at this elevation is *Senecio triangularis*.

Senecio triangularis is a tall, unspectacular composite with many small yellow-rayed heads. It is very common in mid-elevation marshy meadows and a dominant plant in the drier areas. What a joy it is to wander the wet meadows splashed with the colors of numerous wildflowers, with the taller association of false hellebore (*Veratrum viride*), the ever-smelly valerian (*Valeriana sitchensis*), and of course *Senecio triangularis*.

My joy has been slightly marred by the fact that those little orange and black caterpillars have been voraciously attacking the native *Senecio* in the meadows. Last year I was hard pressed to find one uneaten stem in ten thousand in the meadows around Blair Lake (4800 ft.). This has been the case in other meadows in the Western Cascades.

It is not unusual in our world today to find nature out of balance. One may be comforted in the fact that this moth alone will probably not wipe out the native *Senecio*. Nevertheless, many questions come to me on the wings of this moth. How far east will it spread? Will the beetle also eventually move to these higher elevations? Is the moth actually damaging any native stands?

Like so many questions about the natural world, the answers provide only more questions. The more we know, the more we realize how much there is to learn. I know one thing for sure, as the clouds drift by, these mountain meadows will continue to bring me joy and questions year after year.

Howie Brounstein
High Desert Chapter



Senecio triangularis
Arrowleaf

Drawn by Jeanne R. Janish
From Flora of the Pacific Northwest, 1973

NATIVE PLANT SOCIETY OF OREGON
FIELD INTERN REPORT
ON *CIMICIFUGA ELATA*, TALL BUGBANE

Over the summer of 1992, I had the opportunity to study a rare plant in the Buttercup family, *Cimicifuga elata*, tall bugbane. This plant is a regional endemic to the Douglas fir forests between the Cascade and Coast ranges, historically ranging from southern British Columbia to Lane County, Oregon. Presently populations are known from the Elwha River at the northern tip of the Olympic Peninsula to the South Fork of the Umpqua River in Oregon.

Tall bugbane is a large herbaceous perennial, potentially quite long-lived (Ed Alverson, pers. communication). The foliage grows from a woody rootstock, reaching up to two meters in height, although average vegetative individuals are a third of a meter high. Bi- or trternately compound leaves grow individually from the rootstock, as well as being arranged alternately in decreasing size on a reproductive stalk. The terminal leaflets are similar in outline to thimbleberry, *Rubus parviflorus*. The flowers are apetalous and radially symmetrical, with many white stamens surrounding one to three (up to seven) carpels. Many flowers are arranged on a raceme, such that the raceme looks like a white bottlebrush of stamens.

Twelve species of the genus *Cimicifuga* are known world-wide. These species occur circumboreally in moist wooded areas (Ramsey, 1987). The genus *Cimicifuga* and closely related *Actaea* form a distinct and archaic species group in one of the most ancestral of herbaceous flowering plant families, the *Ranunculaceae* (Pellmyr 1985, 1986a, 1986b). Baneberry, *Actaea rubra*, is a common herb in western Douglas fir forests, with bright red poisonous berries. There are six species of the genus *Cimicifuga* in North America, three eastern and three western. Only one of these is a common species, *C. racemosa*, in the east. Two North American *Cimicifuga* species are rare endemics, two other species have a limited range or habitat, including *C. lacianata*, a Mt. Hood endemic, and one is the regional endemic *C. elata*. The habitats of *C. lacianata* and *C. elata* do not overlap.

Tall bugbane is listed with the U. S. Fish and Wildlife Service as a C2 species; that is, it is a candidate for threatened status, but information to make that decision is lacking. The pattern of the rarity of tall bugbane is unusual. Species may be considered rare because they are limited to a small geographic area, because they are limited to a very specific habitat, like a particular type of soil, or because all their populations are small (Rabinowitz, 1986). Tall bugbane has a wide geographic distribution for a rare plant, broad habitat specificity (although the issue of habitat specificity in tall bugbane is unresolved) and chronically small populations, with the exception of the population near the South Fork of the Umpqua River drainage.

The internship funded by the Native Plant Society of Oregon allowed me to join an interagency (Oregon Department of Agriculture, Plant Conservation Biology Program, Forest Service, and Bureau of Land Management) study of tall bugbane. Most known populations of tall bugbane occur in or along the margins of mature to old-growth stands of Douglas fir-Western hemlock forest (Ed Alverson, 1986). This successional state of the Douglas fir-Western hemlock forest community has been greatly reduced in the region by timber harvesting. The aim of the interagency study is to better characterize the habitat of tall bugbane, as well as to assess the effects of timber harvesting and other forest management practices on the demography of populations.

Each morning Tom Kaye, the crew and I met with the Forest Service or BLM botanist of the area we were working in and discussed the location of the population, its size, how the plants were distributed, and the nature of the habitat, including the history of fire and logging in the area. Once at the population, our team split into two working groups. One group took vegetation data from ten meter square plots, recording all species present and their percent cover. This data will be used to describe the habitat of tall bugbane. The other group set up a permanently marked transect through the population. Individual plants were

measured from the transect and a numbered metal tag marked their location, so that they could be found in following years. We took demographic data on these individuals, including their height, the size and number of leaves, the number of reproductive stems and racemes, and percent herbivory to vegetative and reproductive parts. The demography of populations at sites with different histories will be monitored, including sites that were logged five years ago, ten years ago, twenty-five years ago, sites where the population borders on a recent cut, and sites where the population lies both inside and outside the boundary of a cut. This data will be used to infer the effect of logging on populations of tall bugbane, and decide what kind of protection it should be given.

The internship came for me as an opportunity to complement my own study of the breeding system and pollination biology of tall bugbane in the Sandy River Gorge. My research was made possible through the Sandy River Research Fund of the Reed College Biology Department, established by Dr. and Mrs. Arch Diack. The Nature Conservancy generously allowed me to conduct research on their land. I studied various aspects of self-compatibility (the ability of a plant species to set seed when pollinated with its own pollen), and found that tall bugbane is at least a moderate selfer. I also found a significant difference between the proportion of aborted seeds that resulted from controlled selfed and outcrossed pollinations. Flowers that were self-pollinated had a greater proportion of aborted seeds. This could be either a late indication of self-incompatibility (Seavey & Bawa, 1986), or an early indication of inbreeding depression. Inbreeding depression is a loss of fitness associated with inbreeding.

I am continuing my research with tall bugbane in my undergraduate thesis at Reed College. I am using starch gel electrophoresis to study variation in enzymes in tall bugbane. This information will allow me (hopefully) to determine the amount and distribution of genetic variation within and among populations of tall bugbane, the level of inbreeding in populations, and the nature of gene flow between populations. This type of knowledge about the genetic constitution of tall bugbane may lead to an understanding of why it is rare, and will be useful for its conservation.

My thanks go to Tom Kaye and Keli, with whom I stayed while in Corvallis, for their incredible warmth and hospitality. My thanks also go to the crew: Angie, Lupine, Matt, and Melissa, for their humor and good-naturedness. With who else would I rather wade through six feet of blackberries and other thorny weeds in order to get a densiometer reading? With who else would I hang from cliffs to measure plants, inhale clouds of swordfern spores that are kicked up as we wade through the ferns, or suffer the gray dust that thickly coated all the vegetation at a population of tall bugbane by a gravel logging road?

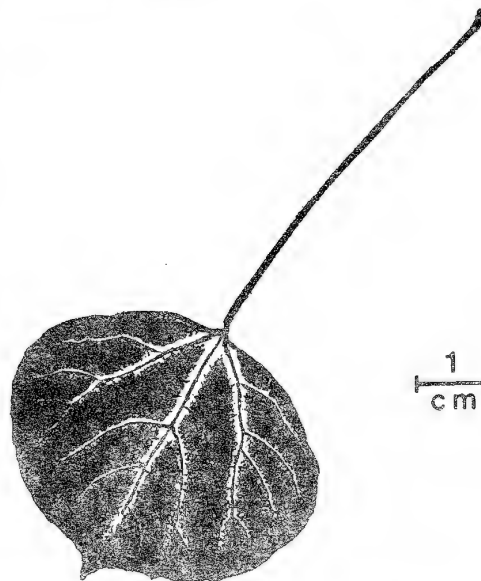
Margaret Evans
Reed College

THE PLANT PUZZLE

SPONSORED BY THE SISKIYOU CHAPTER

Do you recognize this native woody plant? The first person to give the correct scientific name will win a prize. Send your guess on a postcard to:

Peter Zika, 4230 NW Clubhouse Place #1,
Corvallis OR 97330.



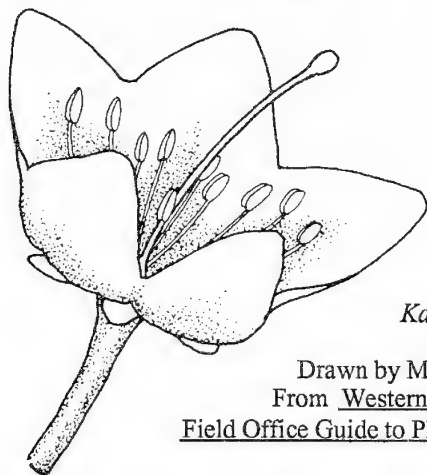
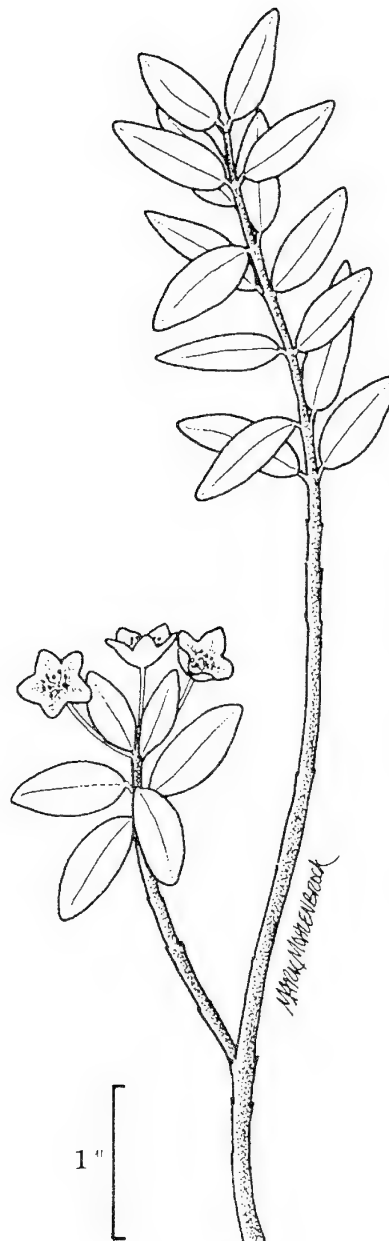
Rhoda Love of Eugene was the first to solve the February puzzle: *Floerkea proserpinacoides*, false mermaid.

UNIVERSITIES COMBINE PLANT COLLECTIONS

Oregon State University (OSU) and University of Oregon (UO) have officially announced an agreement to merge their two herbaria. The herbarium at UO will be closed and its collections, including library, will be transferred and integrated with those at OSU in Corvallis. The combined collections will amount to more than 336,000 plant specimens, the most useful and comprehensive selection of Oregon flora that exists anywhere in the world. It consists of fungi, lichens, liverworts and mosses as well as vascular ("higher") plants. Now, botanists needing to consult the state's botanical collections will need to visit only a single site.

The merger was triggered by budget pressures from Measure 5, having the effect that state agencies be as efficient as possible with less resources. The merger will permit access to the state's botanical collections to continue to be freely available with reduced administrative expenses. The director of the combined facility will be Dr. Aaron Liston, assistant professor of botany at OSU. The position of the director of the UO herbarium will be eliminated after the end of the fiscal year.

The newly expanded herbarium will be housed in Cordley Hall on the Corvallis campus, in ground floor space being specially renovated for the purpose. A grant is being sought from the National Science Foundation to install mobile storage units to facilitate access to the collections and provide room for future growth. The move is expected to be completed by this summer.



Kalmia microphylla
Alpine bog laurel

Drawn by Mark Mohlenbrock
From Western Wetland Flora—
Field Office Guide to Plant Species 1993

BITS AND PIECES

---NEWS AND INFORMATION FROM ALL OVER

VOLUNTEER NEEDED TO WORK ON LEGISLATION

The current Legislative Chair is seeking someone to take on the responsibilities of Legislative Chair for the NPSO or to co-chair the position. The job entails being involved with pertinent state and federal issues. Trips to Salem when the legislature is in session, writing articles for the *Bulletin*, staying current with the issues we are concerned with, and rallying the support of NPSO members when the need arises on critical issues. If interested, please contact:

Esther McEvoy
3290 SW Willamette
Corvallis OR 97333

WILDFLOWERS ACROSS OREGON

Tour led by Lucile Housley in conjunction with
the Native Plant Society of Oregon
May 9th to 15th, 1993

The spring wildflowers and plant communities of Oregon are spectacular and diverse, especially as you make a transect across Oregon. This tour will start in the Pacific Coast rain forest, cross the Coast Range, the Willamette Valley, the Cascades Mountains, the High Lava Plains and on to the Alvord Desert, which is the northernmost extent of the Great Basin high desert steppe. Returning from Harney County, the tour will visit the John Day Fossil Beds where ancient plants can be viewed in fossil form. This trip will pass through seven physiographic zones and visit locations from sea level to over 6,000 feet elevation.

The tour will familiarize participants with individual plants and the plant communities in which they are found. There will be introductions to what plants and plant communities may be found before going into the field, field reconnaissance, and basic tools for identifying different plant families. This will be a "hands on through walking and a hand lens" approach.

This unique trek is designed for the novice as well as the advanced botanist to see the variety of Oregon's plant world: from the ocean, to the moun-

tains and to the desert. Photographers can enjoy fantastic flora and scenic photograph opportunities.

This tour is limited to ten participants and will be led by Lucile A. Housley. Lucile is a botanist with degrees in plant identification and plant ecology, and has led tours and taught classes in Oregon for the past 16 years. Cost for the tour is \$765, which includes tour leader, lodging, meals, transportation and a \$15 donation to the Native Plant Society of Oregon.

To register for the tour or for more information contact:

Full Circle Tours
1335 SW 66th Avenue, #405
Portland OR 97225
(503) 292-0189

DR. ALEX L. SHIGO COMING TO NORTHWEST FOR LECTURES, WORKSHOPS

Dr. Alex L. Shigo, a foremost authority on trees, will visit the Pacific Northwest in May for a week-long series of programs for the general public and horticultural professionals. Shigo is author of A New Tree Biology, Modern Arboriculture, and 100 Tree Myths. He spent 26 years as a plant pathologist for the US Forest Service. He is a fellow of the American Phytopathological Society and the International Academy of Wood Science. He is currently in private practice in research and consulting with his company, Shigo & Trees of Durham New Hampshire.

On May 12th at Clackamas Community College in Oregon City he will present "Trees From the Inside Out", illustrating the biological workings of trees, showing how trees are affected by common horticultural practices such as pruning, fertilizing and planting techniques. Cost of the presentation will be \$15. Shigo will also give a presentation geared to tree care professionals on May 13th at the same location.

For information or to register, contact John Kirkland of Tree Care Educators, 605 SE 70th, Portland 97215 (503) 254-0482.

STATE OFFICERS

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 WILLAMETTE VALLEY (Salem).....Kathy Connelly..... 12611 Centerwood Rd. SE, Jefferson 97352; 327-1212
 WM. CUSICK (LaGrande).....Bob Ottersburg..... PO Box 885 LaGrande 97850; 963-4907

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GUIDELINES FOR CONTRIBUTORS

The NPSO *Bulletin* is published monthly as a service to NPSO members and the public. Contributions of all types are welcome.

DEADLINE: Copy is due with the editor by the 10th of each month.

Submissions can be in any form. Author's name & affiliation are at the end of the article. Double space between paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide. Formatting assistance is available from your editor. All *Bulletin* articles now go into the new NPSO database via computer. Camera-ready copy is not used, with rare exceptions.

Computer output: The editor prefers LONGER articles be on 3.5" Macintosh or IBM disks, or via modem. Contact the editor for details.

Illustrations: Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.

Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.

Scientific Names: Nomenclature should follow *Flora of the Pacific Northwest*, by Hitchcock et al., when appropriate. Use both scientific and common names if possible. *Italicize* genus and species, or underline.

Return of Originals: Submissions are not returned unless requested.

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and changes of address (include old address and zip code) should be sent to the Membership Chair.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Chapter (if known) _____

Address _____

Is this a change of address?

If so, please write your *Old Address* here:

City _____ State _____ Zip+4 _____ - _____

Phone (Home) _____ (Work) _____

City _____ State _____ Zip _____

* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

() New	() Renewal	() Quarter Membership (Sep.-Dec.)	\$3.00	() <i>Bulletin</i> Subscription only	\$12.00
() Student.....			\$ 8.00	() Sustaining.....	\$ 30.00
() Regular.....			12.00	() Patron.....	100.00
() Family Membership.....			18.00	() Life Member	500.00

* CONTRIBUTIONS:

Leighton Ho Memorial Award Fund. \$ _____
 Rare and Endangered Plant Fund. \$ _____

* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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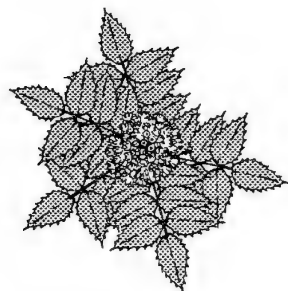
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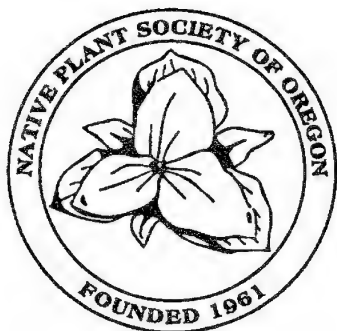
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2584 NW Savier St.,
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**Native Plant
Society of Oregon**

Dedicated to the enjoyment, conservation,
and study of Oregon's native vegetation

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May 1993

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State News

June 4th-6th, Fri.-Sat. **The NPSO 1993 Annual Meeting** will be held in Corvallis on this weekend. More details inside!

Chapter News

Blue Mountain

May 8th, Sat.

Field Trip: A joint trip with the Idaho Native Plant Society. Meet 10am at the Cario School parking lot, a quarter mile west of the Highway 20 / 26 junction to Vale, Nyssa, and Ontario. This will mostly be an auto tour. 4-wheel drive vehicles will be needed for part of the tour, and we hope there will be enough of these to share rides. The South Alkali Sandhills contain two candidate species (*Astragalus mulfordiae* and *Hackelia cronquistii*). These hills can have some of the finest displays of wildflowers in the county. The Vale District BLM has begun discussions on development of a management plan for the area. It sees grazing, ORV use, heavy deer winter use, and active fire management. We welcome participation by all interested in public land management and in what we hope will be a fine wildflower display.

Corvallis

May 10th, Mon.

Meeting: 7:30 pm at the Unitarian fellowship, 2945 NW Circle Blvd., Corvallis. The Corvallis Chapter of the Sierra Club joins us as Phil Hayes presents "Wildflower Walks — A Guide to Trails Around Corvallis". For information contact Keli Kuykendall at 758-8409.

Emerald

Directions to meetings: From downtown Eugene, take Willamette St. south to Crest Dr., (right thru "Y" for Donald, between 32nd & 33rd Ave. E.). Turn right (W) on Crest and proceed about 4 blocks. Turn right into Morse Ranch Park parking lot. Walk east to the white farmhouse.

May 8th, Sat.

Field Trip: Meet 9 am at the South Eugene High School parking lot, across from the YMCA on 20th and Hilyard. Horse Rock Ridge RNA & summit wildflower hike. Cheshire Mayrsohn, our trip leader expects the high rocky bald to be at its early best with possibilities of seeing quillworts, *Githopsis*, *Orobanche*, *Blepharipappus*, and more! Bring poison oak and wet weather protection as well as lunch, water and a pack. The trail is rough enough to advise good footwear, and high enough to pack spare warm clothes; expect a fairly rigorous effort.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas must be no larger than 12.

- May 15th, Sat. **Field Trip:** Buford Park / Mt. Pisgah plant inventory and spring wildflower party II. Buck Brush Creek drainage this time, featuring the amazing *Ceanothus cuneatus*. Meet at South Eugene High School parking lot, near southwest corner of 19th and Patterson St., 9:00 am., or 9:30 at Summit Trail gate, Mt. Pisgah. Contact trip coordinator, Tom Pringle at 484-0669 for details.
- May 16th, Sun. **Wildflower Show:** 10 am to 4 pm at the Mt. Pisgah Arboretum. A great family outing and opportunity for reviewing your local spring flora, buying autographed field guides, eating, purchasing native plants, or confirming that questionable plant or fungus identification, even keeping up with the new Jepson Manual! Anna Mockler really needs volunteers for specific collecting areas; before you head out, contact her at 485-0891 for guidelines.
- May 24th, Mon. **Meeting:** 7:00 pm. at Morse Ranch. Dr. Tom Pringle will give a lecture and slide show titled "Virtual Botany—Vegetation mapping and rare plant searches by computer". Tom's planning a high-tech visit to some favorite local botanical areas.

More information? Call Bruce Newhouse (president) 343-2364 or Ethen Perkins (programs) 345-3944.

High Desert

- May 26th, Wed. **Wildflower Workshop:** "Celebrating Common Wildflowers of Central Oregon" at 7 pm at the Central Oregon Environmental Center. This will be an excellent introduction to the wildflowers of our area.

Mid-Columbia

- May 5th, Wed. **Meeting:** 7:30 pm at the Mosier School. A panel discussion on noxious weeds. Do we pull, spray, or bug 'em? Come listen to experts charged with managing this "growing" problem.
- June 2nd, Wed. **Meeting:** 7:30 pm at the Mosier School. Caitlin Cray, who received her degree at Reed College under Bert Brahm, will give us a show on rare plants at Fort Lewis and at the Yakima Firing Range.

North Coast

- May 1st, Sat. **Field Trip:** Peninsula Park on the Trask River. Meet at 10 am at Tillamook PUD, 1115 Pacific, Tillamook. Easy hiking. Bring a lunch. Trip leader is Jim Winslow (842-4131).
- May 22nd, Sat. **Field Trip:** Hike at Cascade Head to see spring wildflowers. Meet at 9 am at Tillamook PUD, 1115 Pacific, Tillamook. Bring water and lunch. Trip leader is Al Krampert (842-2308).
- May 25th, Tue. **Meeting:** Meet at 7 pm in the Carl Rawe Meeting Room, Tillamook PUD, 1115 Pacific, Tillamook. Amy Buchanan will share techniques for propagating native plants. For more information, call Jim Winslow at 842-4131.

Portland

- May 1st, Sat. **Field Trip:** East bank of the Deschutes River. This area east of The Dalles offers the chance to observe some desert plants as well as more familiar flowers. Beautiful views of the Columbia River may be enjoyed from a loop trail. Leave from Lewis & Clark State Park at 8 am. For more information call Sara Barnum at 639-3353.
- May 8th, Sun. **Field Trip:** West end of the Columbia Gorge. McCord Creek, an easy hike offers special plants, including two rare *Erigerons*, *Douglasia laevigata*, *Penstemon rupicola*. Meet at Lewis and Clark State Park at 8:30 am. Leader is Bob Wilson (292-6855).
- May 11th, Tue. **Meeting:** 7 pm at the First United Methodist Church, 1838 SW Jefferson St., Portland. Arlen Madsen, instructor for the Oregon Department of Fish & Wildlife Naturescaping program, will present "Naturescaping Your Yard — Using Plants and Other Enhancements to Encourage Wildlife in Your Backyard".
- May 15th, Sat. **Field Trip:** East side of Mount Hood to Warm Springs area of Central Oregon for dry land flowers. Mostly a driving trip. Meet at 8:30 am Ashley's Restaurant on Highway 26 at the Boring Highway 212 exit. Leader is Maxine Wilson (655-1523).

The following two excursions make up a single overnight trip.

- May 21st, Fri. **Field Trip:** Big Summit Prairie, Ochoco National Forest—a joint trip with the Willamette Valley Chapter. See *Wyethia*, paintbrush and many others. Leaders are Richard Helliwell, USFS, and Christy Steck. Meeting 10am at Prineville City Park and Courthouse. For information call Clint Urey at 503-393-0886 or Wilbur Bluhm at 503-393-2934.

May 22nd, Sat. **Field Trip:** Painted Hills Section of the John Day Fossil Beds. Features include *Pediocactus simpsonii* and bitterroot. Leaders are Clint Urey and Wilbur Bluhm. Accommodations: Prineville — Ochoco Inn (447-6231); City Center Motel (447-5522); Redmond—Best Western (548-8080); Redmond Inn (548-1091); Village Squire (548-2105).

June 6th, Sun. **Field Trip:** We will go to Opal Creek to experience the old growth forest. Meet at the Tualatin K-Mart lot off the Tualatin exit (#189) off I-5 at 8:30 am. Call Sara Barnum at 639-3353

Siskiyou

May 15th, Sat. **Field Trip:** Mule Mountain Trail in the Applegate. This will be moderately strenuous. Meet at the Medford K-Mart parking lot at 9 am. Leader is Barbara Mumblo, message 734-0424. Bring lunch and water.

May 29th, Sat. **Working Field Trip:** Inventory *Plagiobothry figuratus* spp. *corallocarpus* in the Lincoln area. Meet at the Medford K-Mart parking lot at 9 am. Leader is Juniper Brock, 482-4111.

May 20th, Thur. **Meeting:** 7:30 pm in Room 171, Science Building, Southern Oregon State College. Speakers will be Elmer Vandergelden, fanatic photographer from Hillsboro, Or., specializing in portraits of flowers. Elmer is a native Oregonian with 35 years photographing experience. The public is invited. For information, call Anita Seda at 471-8989.

South Coast

May 12th, Weds. **Organizational Meeting :** at 7 pm in North Bend High School. Joint NPSO / Cape Agago Audubon meeting. Bruce Rittenhouse, Botanist with the Coos Bay BLM, will present a slide show on "Wildflowers of New River ACEC". This will be an organizational meeting to start a new NPSO chapter on the south coast. All current NPSO members from the area are encouraged to attend and bring a friend. For more information call Bruce Rittenhouse at 756-0100 (work) or 888-9328(home).

Umpqua Valley

May 13th, Thur. **Meeting:** 7 pm in Room 311 of the Douglas County Courthouse. The cataloging of plants, and their blooming periods, for the Little River Roadside Field Guide will be discussed. Bring a native plant for identification or discussion if you wish. For information call Mildred Thiele at 673-5397.

May 15th, Sat. **Field Trip:** to walk the Wildlife Safari Nature Trail. Leave at 8 am at the BLM parking lot, 777 Garden Valley Blvd. For information call Russ Holmes at 672-4635.

Willamette Valley

May 1st, Sat. **Field Trip:** To the McCord Creek Trail in the Columbia Gorge; leader is Don Eastman. See *Dodecatheon dentatum*, *Erigeron howellii*, and *Castilleja rupicola*. Salem contact: Clint Urey (393-0886) or Wilbur Bluhm (393-2934).

May 15th, Sat. **Field Trip:** To Mount Hebo in the Coast Range to see *Erythronium elegans*. Leader is Julie Thiel of the BLM. Salem contact: Clint Urey (393-0886) or Wilbur Bluhm (393-2934).

May 17th, Mon. **Meeting / Field Trip:** We begin our outdoor summer meetings this month. We will tour Augusta Rockafellar's garden which contains an abundance of native wildflowers. Leave at 7 pm from the South Salem K-Mart shopping center parking lot (located at Mission and 25th Streets) to carpool to the garden, about 10 minutes away. For more information call Kathy at 327-1212 or Wilbur at 393-2934.

The following two excursions make up a single overnight trip.

May 21st, Fri. **Field Trip:** Big Summit Prairie, Ochoco National Forest—a joint trip with the Portland Chapter. See *Wyethia*, paintbrush and many others. Leaders are Richard Helliwell, USFS, and Christy Steck. Meet at 10am at Prineville City Park and Courthouse. For information call Clint Urey at 503-393-0886 or Wilbur Bluhm at 503-393-2934.

May 22nd, Sat. **Field Trip:** Painted Hills Section of the John Day Fossil Beds. Features include *Pediocactus simpsonii* and bitterroot. Leaders are Clint Urey and Wilbur Bluhm. Accommodations: Prineville — Ochoco Inn (447-6231); City Center Motel (447-5522); Redmond—Best Western (548-8080); Redmond Inn (548-1091); Village Squire (548-2105).

May 29-31st, Sat.–Mon. **Field Trip:** See *Rhododendron occidentale* on a joint trip with the American Rhododendron Society. Leader is Wilbur Bluhm, 393-2934.

William Cusick

May 1st, Sat.

Workparty: The Oregon Trail commemorative flower bed at Birney will be planted. Birney Park is across the street from the Forest and Range Lab on Gekler Lane in LaGrande. We will start around 8:30. If we get done in time we will work on the Gangloff Park project too. Bring a shovel if you have one. Call Bob Ottersberg for more information, 963-9660.

May 8th, Sat.

Field Trip: Jean Findley will be collecting information for the development of a management plan for the South Alkali Sandhills. Meet at 10:30 am at the Cario School parking lot, which is a quarter mile west of the Highway 20 / 26 junction to Vale, Nyssa, and Ontario. Our chapter will be joining the Idaho Native Plant Society to help Jean develop this plan. The study area is considered to have the best wildflower display in Malheur County and due to abundant moisture should be the best in many years. The mulford milkvetch and Malheur forget-me-not which occur in the area are candidates for the rare and endangered list. Call Jean at the Vale District of the BLM 473-6233.

May 15th, Sat.

Field Trip: Marty Stein will lead a tour to Vance Knoll which is a proposed research natural area on the northern edge of the Zumwalt Prairie in Wallowa County. A good example of the mound topography found in the area, it is characterized by deep silty mounds surrounded by very shallow "scabby" soils. The theories of the development of this topography include giant Pleistocene gophers to periglacial frost action have kept experts and amateurs arguing for years. The debate still goes on. Come help Marty conduct an inventory and possibly hear a new theory discussed. Call Marty at 426-3443(H), 426-4978(W). Leave from Enterprise Safeway parking lot at 9 am..

May 15th & 16th,
Sat. & Sun.

Workparty: Berta Youtie is having a work party at the Clearlake Ridge preserve she manages for The Nature Conservancy in Wallowa County. You have the opportunity to pull weeds in some of the most beautiful scenery in northeast Oregon. This is an opportunity to hike in a relatively undisturbed riparian area. It is a birders paradise. Call Berta at 962-3903.

May 22nd, Sat.

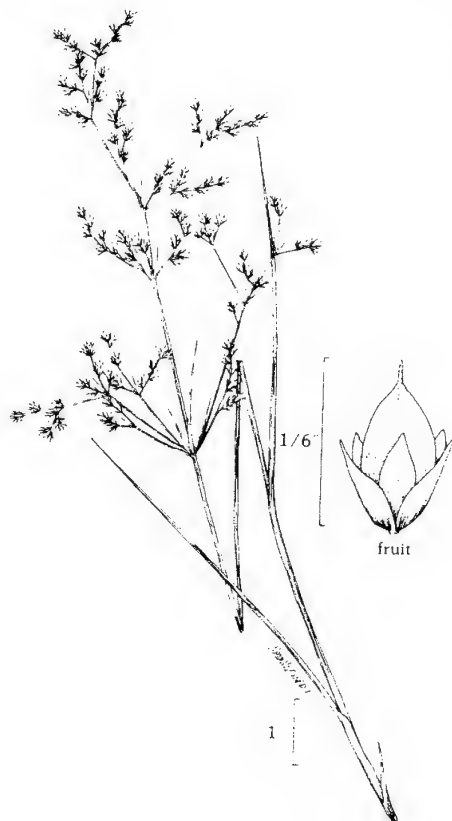
Field Trip: Paula Brooks will lead a wildflower hike along the Oregon Trail in Baker County. Leave 10 am from the Oregon Trail Visitor Center east of Baker City.

May 22nd, Sat.

Field Trip: Frank Lackaff will lead a trip along segments of the Oregon Trail through the Grande Ronde Valley in conjunction with the Union County Historical Society. Leave from Ladd Marsh Wildlife Refuge viewpoint on Foothill Road east of LaGrande. For more information call Frank Lackaff at 562-5313.

May 23rd, Sun.

Work party at Gangloff Park. Meet at the park at 9 am.



Jointed rush
Juncus articulatus
Drawn by Mark Mohlenbrock
From Western Wetland Flora

So, How Many Plants Are There in Oregon??

My first experience with computerized databases occurred in 1986. I had been doing sensitive plant surveys on a contract basis for the Umatilla National Forest during the summers and needed to computerize the generation of site species lists. Until then, I had handwritten and sorted 3 X 5 index cards and then painfully typed a list of all the plants I had encountered in each survey. The list-generating part of my work required approximately four days for each of the sites I surveyed.

Prior to 1986 I had come to the realization that Forest Service Publication PNW-46, Northwest Plant Names and Symbols for Ecosystem Inventory and Analysis (4th Edition), did not contain all of the alphanumeric codes for the plants I was finding in my surveys. I desperately needed an updated version of that publication which was not even under consideration by the Agency. With the purchase of my first PC in 1986, I was ready to make my job of generating site lists much easier. I was determined to revise PNW-46 by myself! It seemed so easy to add new names and their alpha codes to my database and such a contrast to the hand drudgery of the previous years. During my first year of "high tech checklisting" I was able to reduce the average time required to complete a site species-encounter list from four days to approximately 1 hour. It seemed really nice to come in from the field, "pull" a site checklist from the database, and then take a hot shower while the list was being printed!

My interests in a database of Pacific Northwest plants would not go away. I could envision all sorts of wonderful uses for it including the cataloging of the many photographs and slides I had accumulated while accompanied by the works of Hitchcock, Peck, and others during botanical forays through the Pacific Northwest.

In 1989, while on sabbatical leave from my teaching responsibilities at Blue Mountain Community College, I had a wonderful opportunity to have access to the botanical resources of Oregon State University. Dr. Kenton Chambers guided me to the appropriate literature and reference specimens. I nearly went blind typing a wealth of information into the database of my dreams. Under the poor lighting conditions of the OSU Herbari-

um, it was very difficult to use a laptop computer that did not have a cursor enhancer program installed, but somehow I survived it.

By the end of the academic year I had refined my original database and tripled its size. My next step was to combine efforts with Brad Smith, an ecologist on the Okanogan National Forest who had done a lot of botanizing and databasing while working in Southwestern Oregon. Our (Urban, Smith, and Chambers) database continues to grow but is still unfinished to date. However, I have used it for all sorts of interesting queries. "How many taxa of the Pacific Northwest were authored by David Douglas or carry his name in the binomial?" "What plants grow in Linn and Benton Counties?" "Which biotic province shows the greatest plant biodiversity?" And, finally, the question that prompted this article, "How many plant taxa are there in Oregon?"

The Douglas question was easy, the biodiversity question I could answer nicely for a presentation I gave at Whitman College last spring, and the question about state numbers wasn't too difficult either. But I could only give an approximate answer to Peter Zika's question about Linn and Benton Counties since I did not include county fields in the database (there's still time to add them). And so now Tom Kaye wants to know how many plant taxa are in Oregon. The answers are forthcoming but the reader must remember that the database is incomplete and has not been reviewed in its final form (since it's not in its final form yet).

In the Pacific Northwest there are approximately 6,750 plant taxa (excluding a partial listing of bryophytes).

In Oregon there are approximately 5,343 taxa, which includes 852 different genera, 3,430 species, and 1,892 varieties and subspecies. The State of Oregon has 2,536 taxa which are not found in adjacent Washington.

In Washington, there are approximately 4,302 taxa, which includes 748 genera, 3,446 species, and 868 varieties and subspecies. The State of Washington has 1,529 taxa that are not found in adjacent Oregon. The two states share 2,765 plant taxa.

Please remember that all figures are based on a database that is incomplete and may never be complete. Like all databases, it's a useful tool!

As for the other queries, David Douglas authored 90 species in the flora of Washington and Oregon. His name appears in a single genus (*Douglasia*) and in 24 specific epithets (namely *douglasii* and *douglasiana*).



Hulsea algida, alpine hulsea
Drawn by Karl Urban

For queries on floristic biodiversity, the province map is based upon Franklin and Dyrness (1973). The Klamath Mountain Province has 3,149 plant taxa; the Blue Mountain Province, 3,048; the Basin and Range Province, 2,983; the Owyhee Upland Province, 2,842; the Columbia Basin Province, 2,730; the Western Cascades, 2,687; the High Lava Plains Province, 2,596; the Okanogan Highlands Province, 2,565; the Northern Cascades Province, 2,525; the Southern Washington Cascades Province, 2,499; the Olympic Peninsula Province, 2,479; the Coast Range Province, 2,401; the Willamette Valley Province, 2,379; the Puget Trough Province, 2,252; and the High Cascades Province has 1,946 taxa.

Our database was not originally designed to "track" the plant species of counties or of National Forests. However, as more information is acquired on the distribution of species, appropriate fields can be added easily and provide "tracking" on such species. The day may come when our database can conveniently provide plant lists for each county or for each National Forest in our splendid Pacific Northwest.

—Karl Urban
Forest Botanist
Umatilla National Forest

The Names They Are A-Changin': Adventures With the New Jepson Manual

This is not a review of the new Jepson Manual. I look forward to seeing a detailed review of this extraordinary new Flora of California in these pages soon, perhaps written by a teacher of systematics or an agency botanist using the manual in the field. Rather, this note is intended to be a short "teaser" to alert readers to some of the interesting name changes I have discovered in the Jepson Manual during the first week the book has been in my hands.

Of course, botanists in the West have, for a number of years, been hearing rumors about the coming changes. My copy of the new Jepson arrived while I was away on spring break, so I had only a few days to study it closely before I stepped into the classroom to teach spring term systematics. I decided a good way to get a feel for the magnitude of its affect on the nomenclature of our Eugene area species was to use the Mount Pisgah Arboretum plant list to compare old names (based on Hitchcock and Cronquist) with the new ones proposed in Jepson. To begin with a few simple statistics, here is what I found.

The Arboretum flyer lists 297 species of native and introduced ferns, conifers and flowering plants, and, of those, a total of 44, or approximately 15%, have undergone name changes. Involved, in the various cases, are changes in family, genus and/or species. (Before citing examples, let me point out that 96% of the plants on the Arboretum list appeared in the Jepson Manual, which makes it clear to me, perhaps for the first time, that Hitchcock was correct in the Introduction to his Manual, when he stated that south of the 44th parallel, our flora must be characterized as Klamath rather than Northwestern.)

Here are some of the more interesting name changes I found in the Jepson Manual:

Family name changes. At the Arboretum, we have 5 new families to learn. Among the ferns, 3 new families have been created: *Dennstaedtiaceae*, *Dryopteridaceae*, and *Pteridaceae*. Among the Angiosperms, the family *Philadelphaceae* replaces *Hydrangeaceae*, and *Viscaceae* replaces *Loranthaceae*.

Genus name changes. Here are examples of the 13 changes in generic epithet we will be learning: The genus *Rhus* has returned to *Toxicodendron*; some of our well-known members of the genus *Brodiaea* have been placed in either *Triteleia* or *Dichelostemma*; our *Habenaria* orchid has become a *Piperia*; and at least one of our most common owl clovers has been moved from *Orthocarpus* to *Triphysaria*.

Introduced species: Here are a few other changes that may startle some readers, since the plants involved are European weeds whose designations have presumably been accepted at least since the 18th century: *Chrysanthemum leucanthemum* has become *Leucanthemum vulgare*; *Brassica campestris* is now *B. rapa*; *Matricaria matricarioides* has become *Chamomilla suaveolens*; teasel has changed from *Dipsacus sylvestris* to *D. fullonum*; *Centaureum umbellatum* is now *C. erythraea*; *Anthriscus scandicina* is now *A. caucalis*.

Name changes of some native species: The fern *Pityrogramma* is now *Pentagramma*; Blue elderberry has changed from *Sambucus cerulea* to *S. mexicana*; Red osier dogwood has changed from *Cornus stolonifera* to *C. sericea*; *Camassia leichtlinii* has been submerged with *C. quamash*; *Fritillaria lanceolata* has become *F. affinis*; and the Willamette Valley hawthorn, *Crataegus douglasii* var. *suksdorfii* has become simply *C. suksdorfii*.

I find dealing with these changes both exciting and challenging. Although some new names are based on discoveries of earlier valid publication, the majority reflect fresh research into plant affinities. Many of the 200 botanists who contributed monographs to the new Jepson Manual have used the tools of molecular biology, such as protein electrophoresis and DNA analysis, to discover hitherto unsuspected relationships within families and genera. To me, this represents an affirmation that the science of taxonomy is not static and dead, but rather alive and dynamic. It will be hard for me to "unlearn" old names, but I am working on it. For my students this spring, it will mean they can start

their botanical training learning names which will be accepted for some time to come, and that they will not be faced with great numbers of new names to learn in the near future.

For the many NPSO members who have asked how to obtain the Jepson Manual, the fastest way seems to be to call the toll-free number 1-800-822-6657 and order it using your credit card. Be prepared to be charged \$55.00 plus \$3.00 shipping. The price increases to \$65.00 at the end of June.

—Rhoda Love
Emerald Chapter

New NPSO Bulletin Editor Needed

After four years editing your monthly *Bulletin*, the present editor is ready to step down as editor and pass on the position to another volunteer. Increasing demands on my time, which have been steadily growing and which are about to take a quantum leap, require that I cut back on the demands on my attention.

The position brings the opportunity for valuable involvement in the affairs of the NPSO, free use of a computer, and requires about 20 hours a month. This is a good opportunity for someone wanting to benefit from experience at desktop publishing. Full instruction in use of the computer system is freely offered. Any willing computer novice could learn the process, though of course experience will shorten the learning curve. This involves a Macintosh and several pieces of software. The *Bulletin* editor is also an ex-officio (non-voting) member of the NPSO Board of Directors, and should give a report to the Board quarterly.

The printer, proofreader, mailing committee and bulk mail permit are all in the Portland area, so this position should most likely remain there, although theoretically if all four were found elsewhere it could move anywhere.

Interested parties should contact the present editor at the numbers below:

BryanD. Boyce
13285 S. Clackamas River Drive
Oregon City OR 97045-9411
655-4457; 692-1448; 691-1394

The 1993 NPSO Annual Meeting Schedule

The 1993 NPSO Annual Meeting will be the 4th, 5th and 6th of June. Please fill and return the enclosed registration form by May 15th.

Schedule of Events:

Friday June 4th

Registration and check-in to OSU housing between 6 & 8 pm at Hawley Hall. The Friday night Social will take place from 6:30 to 9:30 pm at the OSU Center for the Humanities at 811 SW Jefferson. Come join us!

Saturday June 5th

All day fieldtrips will meet at 8:45 am at the parking lot across from the Monroe Beanery. Half day fieldtrips will meet at 1:00 pm at the same location. Please bring a lunch, water and proper attire. If you need a lunch there is a grocery store next to the Beanery Coffee Shop on Monroe Street.

Sunday June 6th

The State Board Breakfast Meeting will take place from 9 am to 12 noon at Sadies Bar & Grill at 777 NW 9th Street. Sadies features a brunch buffet as well as a breakfast menu and plenty of Allan Brothers coffee! For those not going to the Board Meeting, there will be a sign-up sheet at the Banquet for a morning local fieldtrip.

Saturday Fieldtrips for the 1993 NPSO Annual Meeting

All scheduled fieldtrips will take place on Saturday, June 5th. We will carpool. Bring a lunch if you are going on an all day fieldtrip. Come prepared for varying weather conditions, including warm clothes, raingear, good walking boots and a hat. Choose from the following list of fieldtrips; state first, second and third preference on your preregistration form. Remember, some of the fieldtrips will be limited in the number of participants. Sign up early for best selection!

Horse Rock Ridge Research Natural Area

In the Coburg Hills, Horse Rock Ridge overlooks the Willamette Valley. A one hour drive with moderate hiking. High diversity of wildflowers, in a mixture of meadow and forest. Fieldtrip leader will be Dan Luoma.

Delphinium Fieldtrip

A visit to the local rare *Delphinium pavonaceum* sites around the Corvallis area. Gaylee Goodrich will lead a small group to remnant sites. A half day fieldtrip with easy walking.

Findley Wildlife Refuge

A visit to a variety of remnant valley habitats at Findley Wildlife Refuge. Moderate walking to see the different habitats at the refuge. Fieldtrip leader is Ed Alvorson.

Low elevation Forest

Phil Hayes will lead us through a remnant low elevation old growth forest with easy walking on a one and a half mile loop. The area is a short distance from Corvallis. This is a half day fieldtrip.

Mount Hebo

This Coast Range site has subalpine grasslands with a rich diversity of flora and fauna including orchids, penstemons and lilies. Driving time 2 hours one way, with moderate walking. Leader is Paul Hammond.

Marys Peak

A June wildflower mecca in the Coast Range, with a moderate 2 mile hike through forest, meadow and rock garden. Driving time one hour each way. Leader is Bob Frenkel.

Purple Loosestrife Research Site

A visits to research sites investigation the use of insects to control the spread of purple loosestrife (*Lythrum salicaria*), an European perennial invading wetlands throughout North America. This is a half-day field trip with easy walking. Leader is Manuela Huso.

Mount Pisgah Arboretum's 20th Anniversary Year 13th Annual Spring Wildflower Festival and Plant Sale

This popular event, co-sponsored by Friends of Mount Pisgah Arboretum and the Native Plant Society of Oregon, showcases native plants with a variety of activities. The main exhibit will have over 200 local wildflowers with experts on hand to identify plant samples you bring in. A plant sale will feature a wide variety of plants. Some other items will be on sale as well. William Sullivan, author of 100 Hikes in Northwest Oregon, and Don Eastman, author of Rare and Endangered Plants of Oregon, both will sign and sell their books. Live music will enliven the Festival. Tours of the Arboretum will be available, and special activities are on hand for children.

The Festival will be Sunday May 16th, from 10 am to 4 pm, at Mount Pisgah Arboretum in Buford Park, off Seavey Loop Road in Eugene. Follow the signs from the I-5 overpass beyond Lane Community College on 30th Avenue. For more information call the Arboretum office at (503) 747-3817

The Plant Puzzle

Sponsored by the Siskiyou Chapter

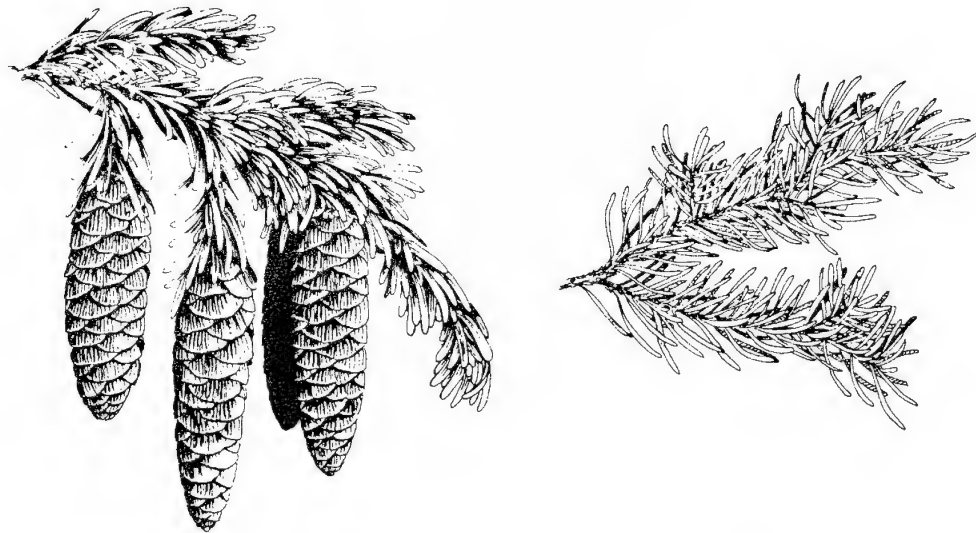
Name three vascular plants native to the waterways of both Brazil and Oregon. They must be in different plant families. One example is *Najas guadalupensis*, which is found in ponds on the Oregon coast as well as backwaters of the Brazilian Amazon. The first person to give the correct scientific name will win a prize.

Send your guess on a postcard to:

Peter Zika, 4230 NW Clubhouse Place #1,
Corvallis OR 97330.

NPSO Window Stickers

The NPSO window stickers are decals featuring our trillium logo in green with an opaque white background. They are made to go on the inside of your car or other windows. Order them from the High Desert Chapter NPSO, c / o Stu Garrett, at 21663 Paloma Drive, Bend OR 97701. They are \$1 each and minimum order is 5.



Tsuga mertensiana
Mountain Hemlock
Drawn by Ramona P. Hammerly
From Northwest Trees
Published by The Mountaineers

Bits and Pieces

News and Information From All Over

New Species Named From Northern California

Neviusia cliftonii, a shrub of the *Rosaceae* (tribe *Kerrieae*), was discovered and named last year from the area around the east half of Lake Shasta. All three known sites are on limestone substrates in cool, shaded canyons in rugged terrain near streams. The only other member of the genus grows in the southeastern United States, but the fossil record places ancestral forms in southern British Columbia. This is the first addition to the *Kerrieae* in 134 years.

The new species has small white petals less than a quarter inch long, unlike the eastern species which is apetalous. Elevation range of the known sites is 980 to 1650 feet.

More *Erythronium elegans* found

Two more populations of *Erythronium elegans*, one of Oregon's more recently described native plants, have been found on Bureau of Land Management (BLM) property. A joint project studying the rare species is underway involving the BLM, US Forest Service, Oregon Department of Agriculture and The Berry Botanic Garden. At this point all agree that more needs to be known to understand the fluctuating population dynamics of this plant.

Oregon Ranks High in Diversity

According to comparative counts by John T. Kartesz of North Carolina Botanical Garden, the 5 states with the most native plant species: California (5,090), Texas (4,510), Arizona (3,250), Oregon (2,930), and Florida (2,870), followed closely by Georgia, Nevada and Utah, each with over 2,500 species. The states with the fewest native plant species are North Dakota, Hawaii, Alaska, Rhode Island and Iowa, each with less than 1,400 kinds. Kartesz' Synonymized Checklist is published by Timber Press.

Canada's Once Oldest Tree

What had been Canada's oldest tree was found last year in a Vancouver Island clearcut, where it was left behind as waste wood. The 1,636 year old Alaska cedar took root during the waning years of the Roman Empire.

50 Old Growth Hikes

A new map and guide titled 50 Old-Growth Day Hikes in the Mount Hood National Forest has been released by authors John and Diane Cissel of Eugene. Like their earlier effort covering the Willamette National Forest, this is a useful help in locating, understanding and enjoying the remaining stands of old growth in the northern Oregon Cascades.

The detailed maps include contours, color codes, and symbols clearly mark trails, roads, and major landmarks. The old growth stands visible as you hike are marked, with low, mid- and high elevation forest types each in a distinctive color, lighter for partial old-growth, and a fourth color denoting the eastside forest stands. A separate locator map gives an overview of trail locations and the roads needed to reach them.

Text narratives for each hike point out the hiking route and significant old growth and other scenic features. Interpretive articles about the ecology of old growth help in understanding the nature of the forests. Clear directions to trailheads are included also. All the trails were field checked in 1992, so most of the information will be up to date. The map is available in stores or may be ordered for \$7.50 postpaid from:

Old-Growth Day Hikes
PO Box 5651
Eugene OR 97405

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GUIDELINES FOR CONTRIBUTORS

The NPSO *Bulletin* is published monthly as a service to NPSO members and the public. Contributions of all types are welcome.

DEADLINE: Copy is due with the editor by the 10th of each month.

Submissions can be in any form. Author's name & affiliation are at the end of the article. Double space between paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide. Formatting assistance is available from your editor. All *Bulletin* articles now go into the new NPSO database via computer. Camera-ready copy is not used, with rare exceptions.

Computer output: The editor prefers LONGER articles be on 3.5" Macintosh or IBM disks, or via modem. Contact the editor for details.

Illustrations: Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.

Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.

Scientific Names: Nomenclature should follow *Flora of the Pacific Northwest*, by Hitchcock et al., when appropriate. Use both scientific and common names if possible. *Italicize* genus and species, or underline.

Return of Originals: Submissions are not returned unless requested.

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and changes of address (include old address and zip code) should be sent to the Membership Chair.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Chapter (if known) _____

Address _____

Is this a change of address?

If so, please write your *Old Address* here: _____

City _____ State _____ Zip+4 _____ - _____

Phone (Home) _____ (Work) _____

City _____ State _____ Zip _____

* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

() New	() Renewal	() Quarter Membership (Sep.-Dec.) \$3.00	() <i>Bulletin</i> Subscription only \$12.00
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() Regular.....		12.00	() Patron.....100.00
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* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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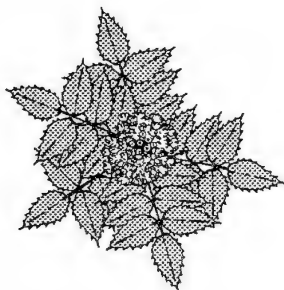
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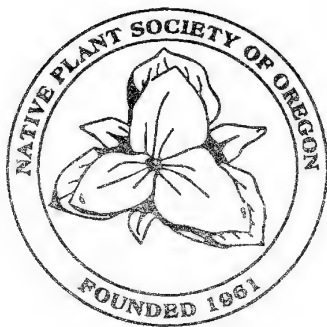
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Native Plant Society of Oregon
Jan Dobak, Membership Chair,
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Portland, Oregon 97210-2412

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Dedicated to the enjoyment, conservation, and study of
Oregon's native vegetation

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June 1993

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State News

June 4th-6th
Fri.-Sun.

The NPSO 1993 Annual Meeting will be held in Corvallis this weekend. More details inside!

Chapter News

Blue Mountain

For information, contact Chapter President Jerry Baker at (503) 566-3381.

Corvallis

The Corvallis Chapter is busy organizing the annual meeting this month.

Emerald

Directions to meetings: From downtown Eugene, take Willamette Street south to Crest Dr., (right thru "Y" for Donald, between 32nd & 33rd Ave. E.) Turn Right (W) on Crest and proceed about 4 blocks. Turn right into Morse Ranch Park parking lot. Walk east to the white farmhouse.

June 19th, Sat.

Meeting: 2 pm at Morse Ranch. Meet at the picnic area north of the parking lot. Potluck picnic and planning for fall volunteer work parties in the park. Bring a dish and your ideas about creating exotic vegetation removal demo plots.

June 26th, Sat.

Field Trip: Grassy Glade and Rigdon Horsepasture Cave. Evelyn Everett will be combining fantastic botany and unique cave archeology stories on a full day trip—bring lunch, water, boots and rain gear. Leave from South Eugene High School parking lot, across from the YMCA on 20th and Hilyard at 8:30 am.

June 27th, Sun.

Field Trip: A tour of Balan ce Restoration Nursery. Get the scoop on available native restoration plants! Leave from South Eugene High School parking lot, across from the YMCA on 20th and Hilyard at 8:30 am.

More information? Call Bruce Newhouse (President) at 342-2364 or Ethan Perkins (programs) at 345-3944.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIPS CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas should be no larger than 12.

High Desert

June 11th-13th
Fri.-Sun.

Field Trip: The Nature Conservancy have invited us to visit this magnificent Clear Lake Preserve in north-eastern Oregon. We will spend Friday night camping at Wallowa Lake and Saturday night camping near the preserve. Conservancy staff member Berta Youtie will be our guide for this moderate hike to see plants and birds. Contact trip coordinator Stu Garrett for details at 389-6981.

Mid-Columbia

June 2nd, Wed.

Meeting: 7:30 pm at the Mosier School. Caitlin Cray, who received her degree at Reed College under Bert Brahm, will give us a show on rare plants at Fort Lewis and the Yakima Firing Range.

July 7th, Wed.

Meeting: 7:30 pm at the Mosier School. We are pleased to welcome Mr. Scott McDonald of the Columbia Gorge Discovery Center. Scott will bring us up to date on this year's activities and the long range plants to dovetail with the Forest Service Interpretive Center at The Dalles.

Aug. 4th, Wed.

Barbecue Potluck at the Igo Acres. If you don't know the way, meet at the Mosier School at 7 pm.

North Coast

June 12th, Sat.

Field Trip: Call Jim Winslow at 842-4131 for details.

June 29th, Tue.

Meeting: Meet at 7 pm in the Carl Rawe Meeting Room, Tillamook PUD, 1115 Pacific, Tillamook. Jim Winslow will discuss landscaping with native plants. For more information, call Jim Winslow at 842-4131.

Portland

June 6th, Sun.

Field Trip to Opal Creek to experience old growth forest. Leave 8:30 am from the Tualatin K-Mart parking lot, Exit 289 off I-5. For more information call Sara Barnum at 639-3353.

June 8th, Tue.

Meeting: 7 pm at the First United Methodist Church, 1838 SW Jefferson Street, Portland. Jerry Asher, Research Co-Ordinator for the BLM, will talk on his hobby of weed study with "Alien Invasions: Noxious Weeds on Public Land".

June 12th, Sat.

Field Trip: Grassy Knoll in Gifford Pinchot National Forest. Leave from Lewis and Clark State Park off I-84 east of the Sandy River at 8 am. Second meeting place at the north end of the Bridge of the Gods at 9 am. Leader is Carroll Dubuar (234-4135).

June 19th, Sat.

Field Trip to Conboy Refuge in Washington to see *Calochortus longibarbus* and other rare flowers. Leave from Lewis and Clark State Park off I-84 east of the Sandy River at 8 am.

June 19th, Sat.

Field Trip in conjunction with the Friends of the Columbia Gorge, with a hike of 6.5 miles along the Pacific Crest Trail, passing Gillette Lake to Greenleaf Basin overlook. Leave 8:30 am from the DOT parking lot near 60th and Glisan in Portland, or at 9:30 am from the trailhead across from Bonneville Dam on Washington State Highway 14 (2 miles west of the north end of the Bridge of the Gods). Leader is Carroll Dubuar (234-4135).

June 26th, Sat.

Field Trip: Cone Peak / Iron Mountain. A joint trip with the Willamette Valley Chapter to be led by Wilbur Bluhm. Call Sara Barnum for late information on meeting place at 639-3353.

Siskiyou

No meeting in June.

June 12th, Sat.

Working Field Trip to inventory the "rare" *Plagiobothrys figuratus* spp. *corallicarpus*. Leave from the Ashland BiMart at 8:30 am or the Medford Food 4 Less at 9 am. For more information call Richard Brock at 482-4111.

July 4th, Sun.

Wildflower Show at Lithia Park. Call Beth Whitman at 488-3955 or Dave Kennedy at 535-6383.

South Coast

June 19th, Sat.

Field Trip: A moderate 2 mile trip to Iron Mountain to see *Picea breweriana*, *Darlingtonia* bogs and other interesting serpentine vegetation. Leader is Veva Stansell. Leave at 9 am from Powers Ranger Station (for those coming from the north) or from Agness (for those coming from the south). We will meet at Agness Pass and continue to Iron Mountain trailhead. For information call Bruce Rittenhouse at 756-0100 (w) or 888-9328 (h).

Umpqua Valley

June 10th, Thu.

Meeting: 7 pm in Room 311 of the Douglas County Courthouse. Ken Carloni will speak on "Fire Ecology of Douglas County". Call Ted Schattenkerk at 679-6953 for more information.

June 19th, Sat.

Field Trip to walk The Wildlife Safari nature Trail. Leave at 8 am from the BLM parking lot, 777 Garden Valley Blvd. For information call Russ Holmes at 672-4635.

Willamette Valley

June 21st, Mon.

Meeting / Field Trip: We're off to tour a native prairie just outside of Sublimity with Don Roberts. Leave from the south Salem K-Mart shopping center parking lot (located at Mission and 25th Streets; let's meet in the lot near Mission Street) at 6:30 pm for carpooling to the site. For additional information call Kathy at 327-1212 or Wilbur Bluhm at 393-2934.

July 19th, Sat.

Meeting / Field Trip: We plan to tour the Gaylor property in West Salem. This land has recently been granted to the Salem Audubon Society (SAS). We will have Mark Wigg (President of SAS) on hand to discuss history and our potential involvement in this exciting project. Please meet at 7 pm at the West Salem Roth's IGA grocery store parking lot (just off Wallace Road—lets meet in the lot near Wallace Road) to get directions to the site. For additional information call Kathy at 327-1212.

William Cusick

June 5th, Sat.

The Cusicks Chapter will be participating in the first field day for the Rebarrow Project south of LaGrande. Pat Lichen Bill Oberteuffer and others will help various groups chose sites they will develop management plans for. Call Pat Lichen at 963-8362 (H) or 963-8025 (W).

Welcoming Our New Members....

Corvallis

Nancy A. Morrissey
Carolyn VerLinden
Barbara L. Wilson

Emerald

Linda Brackett

High Desert

Mary & Rich Barber
Melanie Florence
Pete & Ruth Peterson
Anthony & Mary Walters

Mid-Columbia

Caitlin Cray

North Coast

Patrick Temple & Peggy Maack

Portland

Leslie Anderson
Gretchen Baller
Wendy Batchelor
Elizabeth N. Boyd
Cedar Hills Garden Club
Christine Charneski
Staci Crowley
Alan & Becky Johnston
Jim Hohnson & Carol Rogers
Patricia L. Justice
Jim Kramer
David McAllister

Wilma McNulty
Christopher S. Morris
Colleen Nevins
Gretchen O'Brien
Portland Habilitation Center Nursery
John Robotham & Mary Johnson
Rob Stockhouse
Leslie J. Swope
Sharol Tilgner

Siskiyou

Doug Foster
Rachel Winters

Umpqua Valley

Stanley Wilson

Willamette Valley

Clifford Curry & H. Delight Stone
Thomas J. Galli
Glenna Green & Megan Koster
Edward & Marilyn Karbonski
Grace Ledford
Peggy Palazzo

William Cusick

Jerold Hustafa

At Large

Nancy & Dale Denson
Susan Stepniewski

Election Results

State Election Results

The nominating committee is pleased to announce the results of the recent State Board elections. Re-elected to President is Lisa Croft and to Secretary is Bruce Rittenhouse. Elected to Vice President is Rhoda Love, to Treasurer is Kari Yanskey, and to Directors-at-large are Jenny Dimling, Veva Stansell and Nancy Wogen. Many thanks to all of our candidates!

State Officers will be installed at the Annual Meeting this June.

Portland Chapter Results

The following Officers for the Portland Chapter will begin their terms with the June Chapter meeting:

President: Laura and Steve Gassaway
Vice-President, programs: Katharine Diack
Vice-President, field trips: Sara Barnum
Secretary: Marvel Gillespie
Treasurer: Jean Marie France

Port Orford Cedar: A Unique Tree That Needs Special Attention

Port Orford Cedar is a unique tree species found only in northwestern California and southwestern Oregon. This species of cedar is most often found in streamside areas and on serpentine soils of higher elevations. It is distinguishable from western redcedar and incense cedar by the thin, white-lined "X" pattern on the underside of the foliage. The foliage sprays are also flat, finer, denser, and more lacy than those of the other native cedars. Western redcedar most closely resembles Port Orford cedar but has a broader stomatal pattern on the underside of the foliage that resembles a butterfly's wings.

Port Orford cedar is very valuable for both economic and non-economic uses. It is a valuable member of the forest ecosystem, particularly in riparian areas. It can be the dominant tree of harsh serpentine sites, with medium-sized trees reaching ages of 3-400 years. The clear, fine-grained old-growth wood from this tree is highly valuable in Japan as a substitute for their native hinoki, which is in short supply. Boughs of Port Orford cedar have value as a mix with floral arrangements, especially in the winter holiday season. There is also a small domestic market for Port Orford cedar products such as arrowshafts and pet bedding.

In 1923 a disease was reported on ornamental plantings of Port Orford cedar near Seattle. In 1942, the cause of this disease from a root-rot fungus was discovered and named after study of ornamental planting losses in the Willamette Valley. Losses became so severe in Oregon and Washington that production was largely abandoned. However, this could not prevent the spread of the deadly root disease, *Phytophthora lateralis*, into the natural range of Port Orford cedar.

In 1952, the disease was found in southwestern Oregon near Coos Bay. By 1954, dead and dying Port Orford cedars were conspicuous in the area's towns and along major roads. Aerial photographs taken in 1956 showed a network of dying trees along watercourses, around lakes and sloughs, and along rural roads, livestock trails, and farmsteads. Spread of the disease into the mountains has been slower but progressive. The spores of the root fungus spread by movement of soil and water. The disease is most commonly spread by mud attached to vehicles and equipment. It then travels downstream from new infection points with water flow. Mortality from the disease has been variable. In no stands has the disease yet been observed to have eliminated over half of the Port Orford cedar.

On the Chetco Ranger District the range of Port Orford cedar extends from the Pistol River watershed south along the eastern edge of the district. Most of the infected areas occur on the northern end of the district.

Efforts to control the spread of the root disease have included:

- restricting operations in areas of Port Orford cedar to the drier months (generally June through September);
- winter closure of roads in areas with substantial amounts of Port Orford cedar; requirements for washing vehicles before entering uninfected areas in wet weather;
- minimizing grazing and road construction in areas with Port Orford cedar;
- identifying significant stands which are unlikely to become infected over time;
- planting the tree in isolated blocks in harvested units so as to minimize chance of disease spread by root grafts;
- and educating forest users about the conditions which spread the disease.

You can help minimize the spread of Port Orford cedar root disease by taking the following measures:

- voluntarily restrict your wet weather travel in the forest to main routes;
- take interest in management of Port Orford cedar in projects involving public input;
- be aware of infected and uninfected areas on your local ranger district and forest.

Further information involving management of Port Orford cedar is available from the Chetco Ranger District office at 555 Fifth Avenue in Brookings (behind Sentry Market), between the hours of 7:30 and 4:30, Monday through Friday (503-469-2196). Questions may be directed to Bill Forbes, District Port Orford cedar Coordinator. Or you may contact the Interregional Port Orford cedar Program Manager, Mel Greenup, at the Siskiyou National Forest, PO Box 440, Grants Pass, OR 97526 (503-479-6905).

—Bill Forbes, Forester,
Chetco Ranger District

Botanical Explorations and Collections of The Pacific Northwest

Plans are now well along towards writing the text for a book on the history of botanical exploration and plant collectors of the Pacific Northwest. The scope of the book will reach back to the late 18th Century (Monkino, Menzies, etc.) and end in the 1930's; it will include the broad biogeographic region of the Pacific Northwest (Oregon, Washington, Idaho, Montana and British Columbia). The intent is to produce a book that is accurate, inclusive and informative, written in an engaging style suitable for the general reader. Besides the essential facts surrounding the lives and activities of the plant hunters, we intend to enliven the text with much anecdotal material. Major collectors (such as Menzies, Douglas, Lewis & Clark, Henderson, Thompson, Howell, Suksdorf, etc.) will be given the featured attention; as well, minor collectors will be covered. Illustrations will include portraits of the collectors, historically important collecting localities, and representative plant specimens. "Back-matter" of the book will include appendices (chronologies, itineraries, herbaria housing Northwest collectors's specimens including types?), published floras local and regional, and annotated lists of lesser collectors as well as botanists in related fields); bibliographies of general references as well as specific references of published and unpublished sources; and index.

To date, we have had two planning sessions (December 1991 and February 1993, both in Eugene). At the 1993 meeting future plans were drafted, a detailed list of collectors was reviewed, and a tentative Editorial Board drawn up.

With this Prospectus, we hope to reach potential authors, resource persons, etc., as well as contacting Pacific Northwest native plant societies and kindred organizations. The Prospectus will also reach potential sources of financial support. We especially encourage the native plant societies and like groups in the Pacific Northwest to publicize this project.

Co-Editors:

Art Krukeberg Dept. of Botany KB -15, University of Washington Seattle WA 98195 (206) 543-1976	Rhoda Love 393 Fulvue Drive Eugene OR 97405-2706 (503) 345-6241
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The Plant Puzzle

Sponsored by the Siskiyou Chapter

Dorothy Barr of Lake Oswego was the first to solve the April puzzle: *Populus tremuloides*, quaking aspen. No one has yet solved the May puzzle, which is repeated below.

Name three vascular plants native to the waterways of both Brazil and Oregon. They must be in different plant families. One example is *Najas guadalupensis*, which is found in ponds on the Oregon Coast as well as backwaters of the Brazilian Amazon. The first person to give the correct scientific name will win a prize. Send your guess on a postcard to:

Peter Zika
 4230 NW Clubhouse Place, #1
 Corvallis OR 97330

NPSO Window Stickers

The NPSO window stickers are decals with our trillium logo in green over an opaque white background. They can go on the inside of your car or other windows.

Order them from the High Desert Chapter NPSO, c/o Stu Garrett, at 21663 Paloma Drive, Bend OR 97701. They are \$1 each and minimum order is 5.

New Field Research on Estes' Artemisia

Estes' artemisia (*Artemisia ludoviciana* spp. *estesii*) is a plant in the sunflower family (*Compositae*) related to our common sagebrush (*Artemisia tridentata*), wormwood (*A. absinthium*), and mugwort (herbaceous artemisia spp.). It is listed by the US Fish and Wildlife Service as a C2 Candidate, and is on the Oregon Natural Heritage Program's List 1 (taxa threatened or endangered throughout their range). Previously known only from Dr. Kenton Chambers' small siting near a falls on the Deschutes River east of Redmond, it has not yet been formally named. Unpublished plants are ineligible for state or Federal protection. It seemed reasonable that the seeds of this plant could be spread by water, so since 1990 I have been ground checking the Deschutes River area for additional stands. I found significant numbers of this local endemic.

After counting more than a million stems of spp. *estesii* over 20.5 miles of riverbank, I can come to some fairly reliable generalizations, especially about habitat. At the original site, the habitat description is gravelly area adjacent to streams above the high water mark. I have seen this habitat described for this subspecies in a number of sources. Although I have often noticed small subpopulations around falls and on isolated rock outcrops at the river's edge, I consider this the fringe of its habitat. No more than five percent of the plants grow in this habitat. The largest, densest stands (which can be 20 or more feet in length) always occur on planar to slightly undulating moist riverbanks below high water mark. Plants at these sites often form thick rhizomatous mats which interconnect the numerous stems.

The plants associated with Estes' artemisia are very consistent. The herb layer generally consists of bittersweet (*Solanum dulcamara*), yellow iris (*Iris pseudacorus*), and often cat-tail (*Typha latifolia*) if the stand is not solid artemisia, which occasionally is the case. The shrub layer consists of spirea and willow. These shrubs are not usually in the stand of artemisia itself, but often are found between it and the high water mark. This can make locating and counting the artemisia very difficult at times, since these shrubs often form a thick barrier. The easy way to get an accurate count of the plants is by boat from the river.

Identifying herbaceous artemisias can require careful work. The different species and subspecies are extremely variable and interbreed freely. Individuals exhibit leaf shape and size, plant height, and pubescence of other species. New spring and fall growth is often atypical, like that of another species. The key to deciphering these problems is to look at the many mature plants in a stand and generalize from the common characteristics.

When I originally keyed this plant out in Hitchcock's flora of the Pacific Northwest, it appeared to be a cross between *A. douglasiana*, the common species west of the Cascades, and *A. ludoviciana*, common to the east. Hitchcock mentions that these species pass from one into the other. Later, after determining the true name of the plant, I realized that *A. ludoviciana* spp. *estesii* had more characteristics that matched *A. douglasiana*. I assumed that these two must be closely related. In reality these two are the farthest apart of all the species in their chromosomal makeup. The subspecies *estesii* is more closely related chromosomally to the coastal mugwort *A. suksdorfii*! This shows once again that our plant classification system is artificial and only approximates reality. Just because two species are close to each other in a key does not necessarily reflect the true biological or evolutionary relationship.

The genetic makeup of subspecies *estesii* and its relationship to other species was studied extensively by James Estes for his doctoral thesis at OSU. It appears that both *A. suksdorfii* and *estesii* are diploid, with two sets of chromosomes. *A. ludoviciana* is tetraploid with four sets of chromosomes, and *A. douglasiana* is hexaploid with six sets. It was once believed that *douglasiana* (6n) was a hybrid of *ludoviciana* (4n) and *suksdorfii* (2n). Unfortunately, since all species of artemisia have compatible chromosomes that pair up regularly, this can neither be confirmed or disproved by chromosomal analysis.

With the easy interchange of chromosomes, it is biologically significant to find a diploid subspecies in an area where all the other races are tetraploid. Should other diploid races similar to this one be found in drainages not necessarily connected to the Deschutes, it would raise interesting evolutionary questions. The stage is set for further research concerning artemisias in central Oregon.

Now that subspecies *estesii* has been shown to be more than a genetic freak from one location, Dr. Chambers has agreed to formally publish its name. The description of its features will be a difficult task with its extreme variability of easily seen characteristics. This is not a problem on the Deschutes, but will become very important when identifying artemisias in other parts of central Oregon. Unfortunately, a chromosome count is the most accurate means of identification.

Voucher specimens for this research are on file at OSU, and the plant siting reports are on file with the Natural Heritage Program's database. I would like to thank my students Kim Kamaiccia, John Reuter, Dennis Pierce, and Jeff Payne for their invaluable help in the field; Dr. Dave Wagner for his support and encouragement, and Dr. Kenton Chambers for the genetic and taxonomic information. For further information I can be contacted at PO Box 1553, Sisters OR 97759 or (503) 389-6348.

—Howie Brounstein
High Desert Chapter

New NPSO Bulletin Editor Needed

After four years editing your monthly *Bulletin*, your current editor is ready to step down and pass on the position to another volunteer. The position gives an opportunity for valuable experience for someone wanting to benefit from experience at desktop publishing. The NPSO will provide a MacIntosh computer along with the position. I will provide all assistance needed to familiarize anyone with the system, which is easy to use.

Production, printing and mailing of the *Bulletin* currently involves the editor, a separate mailing committee, a proofreader, a printer, and a bulk mailing permit. The newsletter can be produced anywhere that these can be found. Most submissions are by mail, with a few of them arriving via modem, fax or phone. Computerization has provided several time-saving shortcuts in production, and little or no paste-up is required. The NPSO has not yet purchased a Postscript-compatible laser printer, so access to one by the new editor is needed (many Kinko's stores have them available for rent). All costs of the position are provided by the Society.

Interested parties can contact the present editor for more information at the numbers below:

Bryan D. Boyce
13285 S. Clackamas River Drive
Oregon City OR 97045
(503) 655-4457 or 692-1448

The 1993 NPSO Annual Meeting Schedule

The 1993 NPSO Annual Meeting will be the 4th, 5th and 6th of June. Registrations have been closed, but this updated schedule is included for your information.

Schedule of Events:

Friday, June 4th

Registration and check-in to OSU housing between 6 & 8 pm at Hawley Hall. The Friday night Social will take place from 6:30 to 9:30 pm at the OSU Center for the Humanities at 811 SW Jefferson. Come join us!

Saturday, June 5th

All day field trips will meet at 8:45 am at the parking lot across from the Monroe Beanery. Half day field trips will meet at 1 pm at the same location. Please bring lunch, water and proper attire. If you need a lunch there is a grocery store next to the Beanery Coffee Shop on Monroe Street.

The Annual Banquet will be at 6:30 pm in the Memorial Union Building. The speaker will be Duncan Thomas, who will present "Plants and People: African Botany in the Spotlight".

Sunday, June 6th

The State Board Breakfast Meeting will take place from 9 am to 12 noon at Sadies Bar & Grill at 777 NW 9th Street. Sadies features a brunch buffet as well as a breakfast menu and plenty of Allan Brothers coffee! For those not going to the Board Meeting, there will be a sign-up sheet at the Banquet for a morning local field trip.

Saturday Field trips for the 1993 NPSO Annual Meeting

All scheduled field trips will take place on Saturday, June 5th. We will carpool. Bring a lunch if you are going on an all day field trip. Come prepared for varying weather conditions, including warm clothes, raingear, good walking boots and a hat. Choose from the following list of fieldtrips; state first, second and third preference on your preregistration form. Remember, some of the field trips will be limited in the number of participants. Sign up early for best selection!

Horse Rock Ridge Research Natural Area

In the Coburg Hills, Horse Rock Ridge overlooks the Willamette Valley. A one hour drive with moderate hiking. High diversity of wildflowers, in a mixture of meadow and forest. Field trip leader will be Dan Luoma.

Delphinium Field Trip

A visit to the local rare *Delphinium pavonaceum* sites around the Corvallis area. Gaylee Goodrich will lead a small group to remnant sites. A half day field trip will easy walking.

Findley Wildlife Refuge

A visit to a variety of remnant valley habitats at Findley Wildlife Refuge. Moderate walking to see the different habitats at the refuge. Field trip leader is Ed Alvorson.

Low Elevation Forest

Phil Hayes will lead us through a remnant low elevation old growth forest with easy walking on a one and a half mile loop. The area is a short distance from Corvallis. This is a half day field trip.

Mount Hebo

This Coast Range site has subalpine grasslands with a rich diversity of flora and fauna including orchids, penstemons and lilies. Driving time 2 hours one way, with moderate walking. Leader is Paul Hammond.

Mary's Peak

A June wildflower mecca in the Coast Range, with a moderate 2 mile hike through forest, meadow and rock garden. Driving time on hour each way. Leader is bob Frenkel.

Purple Loosestrife Research Site

A visit to research sites investigating the use of insects to control the spread of purple loosestrife (*Lythrum salicaria*), an European perennial invading wetlands throughout North America. This is a half-day field trip with easy walking. Leader is Manuela Huso.

STATE OFFICERS

DIRECTORS..... Bill Hopkins, Jerry Igo, Warren Pavlat, Margie Willis, Carolyn Wright, Peter Zika
 PRESIDENT..... Lisa Croft..... 699 W. 2nd, Prineville 97704; 447-5270
 IMMEDIATE PAST PRESIDENT..... Stephanie Schulz..... 652 W. 10th St. #1, Eugene 97402; 485-1868
 VICE PRESIDENT..... Dan Luoma..... 2912 NW Arthur Ave., Corvallis 97330; 758-8063
 SECRETARY..... Bruce Rittenhouse..... 1170 Michigan, Coos Bay 97420; w-756-0100; h-888-9328
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 LEGISLATIVE..... Esther McEvoy..... 3290 Willamette, Corvallis 97333; 754-0893
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 CORVALLIS..... Duncan Thomas..... 2060 NW Dogwood Dr., Corvallis 97330-1102
 EMERALD (Eugene)..... Bruce Newhouse..... PO Box 902, Eugene 97405; 343-2364
 HIGH DESERT (Bend)..... Cindi O'Neil..... 22100 Sweetgrass Dr., Bend 97701; 389-3085
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 PORTLAND..... John King..... 3320 SW 100th Ave., Portland 97225-2940; 292-6539
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 WM. CUSICK (LaGrande)..... Bob Ottersburg..... PO Box 885 LaGrande 97850; 963-4907

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 KALMIOPSIS EDITOR..... Frank Lang..... 535 Taylor St., Ashland 97520; W-552-6341; H-482-5235

GUIDELINES FOR CONTRIBUTORS

The NPSO *Bulletin* is published monthly as a service to NPSO members and the public. Contributions of all types are welcome.

DEADLINE: Copy is due with the editor by the 10th of each month.

Submissions can be in any form. Author's name & affiliation are at the end of the article. Double space between paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide. Formatting assistance is available from your editor. All *Bulletin* articles now go into the new NPSO database via computer. Camera-ready copy is not used, with rare exceptions.

Computer output: The editor prefers LONGER articles be on 3.5" Macintosh or IBM disks, or via modem. Contact the editor for details.

Illustrations: Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.

Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.

Scientific Names: Nomenclature should follow *Flora of the Pacific Northwest*, by Hitchcock et al., when appropriate. Use both scientific and common names if possible. *Italicize* genus and species, or underline.

Return of Originals: Submissions are not returned unless requested.

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and changes of address (include old address and zip code) should be sent to the Membership Chair.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Chapter (if known) _____

Address _____

Is this a change of address?

If so, please write your *Old Address* here: _____

City _____ State _____ Zip+4 _____ - _____

Phone (Home) _____ (Work) _____

City _____ State _____ Zip _____

* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

() New	() Renewal	() Quarter Membership (Sep.-Dec.) \$3.00	() <i>Bulletin</i> Subscription only \$12.00
() Student.....		\$ 8.00	() Sustaining.....\$ 30.00
() Regular.....		12.00	() Patron.....100.00
() Family Membership.....		18.00	() Life Member500.00

* CONTRIBUTIONS:

Leighton Ho Memorial Award Fund. \$ _____

Rare and Endangered Plant Fund. \$ _____

* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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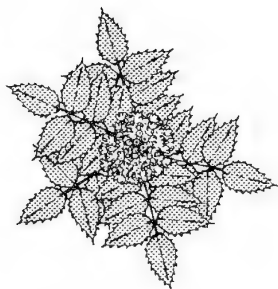
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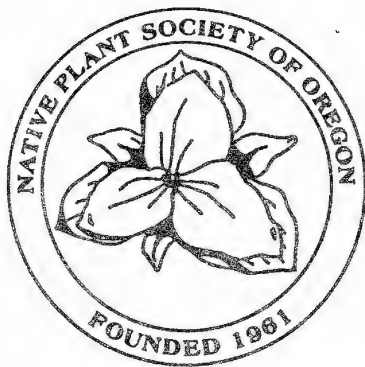
For more Native Plant Society of Oregon information, see the inside back cover.

Send change of address notices
and membership requests to :
Native Plant Society of Oregon
Jan Dobak, Membership Chair
2584 NW Savier Street
Portland OR 97218-2412

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Bulletin of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of
Oregon's native vegetation

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July 1993

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State News

July 31st-Aug. 1st,
Sat.-Sun.
may

Field Trip to Klamath Forest National Wildlife Refuge east of Crater Lake. Wendell Wood of the Oregon Natural Resources Council will lead a two day outing, and is offering his log cabin as a base camp. You arrive at Wendell's cabin and camp on Friday evening July 30th. We will rendezvous each morning at 9:30 am at Wendell's cabin. Bring a canoe for marsh exploration on Sunday. Wendell has developed a list of 350 species around Klamath Marsh which includes corrections in the new Jepson Manual.

Directions: Take Hwy. 97 to just north of the 228 mile post and turn east at a sign for Silver Lake (opposite West Boundary Road). This turn off is 0.5 mile south of the Sand Creek Store. Drive east on Silver Lake Hwy. 0.5 mile after the 10 mile post and turn left on FS Road 7633 (first possible left turn). Proceed 0.6 mile and turn right on FS Road 380, which deadends at Wendell and Kathy Wood's log cabin in 0.3 mile. Driving time from either Medford, Roseburg or Eugene is about 2.5 hours. Phone 783-2206. Please come fully self-contained and bring mosquito repellent.

Chapter News

Blue Mountain

For information, contact Chapter President Jerry Baker at (503) 566-3381.

Corvallis

For summer field trips, meet in the parking lot opposite the Monroe Street Beanery.

July 10th, Sat.

Field Trip to Grass Mountain. Little sister to Mary's Peak, this seldom-visited peak with montane meadows lies deep in the Coast Range, west of Alsea. For information call Duncan Thomas at 752-6529 or Dan Luoma at 758-8063.

July 10th, Sat.

Field Trip to Iron Mountain. Meet at 9 am. Leader is Dan Luoma (758-8063).

Aug. 28th, Sat.

Field Trip to Browder Ridge near Tombstone Pass. A joint trip with the Sierra Club. For information call Duncan Thomas at 752-6529.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIPS CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas should be no larger than 12.

Emerald

July 19th, Mon.

Meeting/Fieldtrip. We plan to tour the Gaylor property in West Salem. This land was recently granted to the Salem Audubon Society (SAS). We will have Mark Wigg (President SAS) on hand to discuss history and our potential involvement in this exciting project. Please meet at 7 pm at the West Salem Roth's IGA grocery store parking lot near Wallace Rd. to get directions to the site. For additional information call Kathy at 327-1212.

More information? Call Bruce Newhouse (President) at 342-2364 or Ethan Perkins (programs) at 345-3944.

High Desert

July 10th, Sat.

Field Trip to Big Summit Prairie. This spectacular spot in the Ochoco Mountains is home to rare plants, antelope, beaver, and lots of local history. USFS botanist Richard Helliwell will be our trip leader. This will be a combination of driving and easy to moderate hiking. Contact Richard for details and for meeting place in Prineville at 447-9645 days.

July 17th, Sat.

Field Trip: Plant Fossils. Mel Ashwill, nationally recognized paleontologist, has agreed to take us for a look at millions of years of Oregon plant history. We will visit his private collection and "living fossil" arboretum in Madras, and then go to see plant fossils on site. There will be easy hiking and no collecting. Call Stu Garrett for sign-up and details at 389-6981 eves.

Mid-Columbia

July 7th, Wed.

Meeting: 7:30 pm at Crates Point Longhouse. Carpool from Mosier School at 7 pm if you don't know the way. We are pleased to welcome Mr. Scott McFarland of the Columbia Gorge Discovery Center. Scott will bring us up to date on this year's activities and the long range plans to dovetail with the Forest Service Interpretive Center at The Dalles.

Aug. 4th, Wed.

Barbecue Potluck at the Igo Acres. If you don't know the way, meet at the Mosier School at 7 pm.

North Coast

July 10th, Sat.

Field Trip to Mount Hebo. Meet at 10 am at Tillamook PUD, 1115 Pacific, Tillamook. Easy Hike. Bring lunch. Trip leader is Jim Winslow (842-4131).

Meeting: No meeting in July.

Portland

July 3rd, Sat.

Field Trip to Table Rock in the Mollala drainage. Meet at Fred Meyer's parking lot (next to Elmer's) at Highway 224 -212 Exit off I-205 at 8:30 am. Call leader Bryan Boyce at 655-4457 for more information.

July 10th, Sat

Field Trip to Salvation Springs off Lolo Pass Road. Meet at Ashley's on Hwy. 26 at the Boring Exit at 8:30 am. Call Sara Barnum at 639-3353 for more information.

July 13th, Tue.

Meeting: John Davis, Special Products Specialist for the Zig Zag Ranger District, will discuss the importance of non-tree crops in the forest: the increasing specialty of managing these crops and the public harvesting of them. 7 pm at the First United Methodist Church, 1838 SW Jefferson St., Portland.

July 24th, Sat.

Field Trip to Sheep Canyon on Mount St. Helens. This will be a 5 mile hike with 1300 ft. elevation gain. Meet at K-Mart 122nd and Sandy Blvd. at 8 am. Second meeting place will be Yale Recreation Site on Rd. 503, 1 mile east of Cougar, 4 miles past Jack's Restaurant. Call Carroll Dubuar at 234-4135 for more information.

Siskiyou

- July 4th, Sun. **Irene Hollenbeck Wildflower Show** at Lithia Park. Call Beth Whitman at 488-3955 or Dave Kennedy at 535-6383.
- July 10th, Sat. **Field Trip** to Poker Flat. Wayne Rolle, Forest Botanist for the Rogue River National Forest, will lead the hike. Meet at the Medford K-Mart (near McDonald's) at 8 am or at the Illinois Valley Ranger Station in Cave Junction at 9:15. Arrive at Poker Flat at 10:30. Moderate hiking, cross-country, relatively short distances. May not return to Medford until evening. Poker Flat, at 5,000 ft. near the Siskiyou Wilderness, has a rich flora and a number of rare species. For more information call Wayne Rolle at 482-0093.
- July 17th, Sat. **Field Trip** to Hershberger Peak. Carol Harmount, Botanist for the Prospect Ranger District, will lead a trip to the Hershberger Lookout at 6,200 ft. on the Rogue-Umpqua divide. Several rare species are located in this vicinity. Meet at the Medford Food 4 Less at 9 am or the Prospect Ranger Station at 10 am. For more information call Carol at 560-3480.
- July 31st, Sat. **Field Trip** to Bear Camp. Veva Stansell, Botanist for the Gold Beach Ranger District, will lead us on a trip to Bear Camp, a high elevation area between Galice and Agness. Veva is an expert on the vegetation of the coast and Coast Range and will show us many interesting plants. Meet at the Medford Food 4 Less at 9 am or the Siskiyou National Forest's Supervisor's Office at 9:45. We'll meet up with Veva near Bear Camp around 11. For more information, leave a message for Barbara Mumblo at 734-0424.
- Aug. 14th, Sat. **Field Trip** to a sphagnum bog in Crater Lake National Park. Wayne Rolle, Forest Botanist for the Rogue River National Forest, will lead the hike. Meet at the Medford K-Mart (near McDonald's) at 8 am or at the Prospect Ranger Station at 9 am. Hiking is seven miles total round trip, in gentle terrain, with some cross-country. Plan on wet feet. For more information call 482-0093.

South Coast

- July 17th, Sat. **Field Trip** to the Hunter Creek area. Visit serpentine *Darlingtonia* bogs and springs, along with Jeffrey pine and oak savannas and discuss future management options in this area. Meet at Gold Beach Ranger District on Hwy. 101 at 9 am for carpooling. Optional Sunday field trip for people willing to camp over. For information call Bruce Rittenhouse at 756-0100 (w) or 888-9328 (h).

Umpqua Valley

- July 8th, Thu. **Meeting:** Picnic and botanical survey at Cavitt Creek Falls Park. Meet there at 6:30 pm. Call Mildred Thiele at 673-5397 for more information.
- July 17th, Sat. **Field Trip** to Squaw Flats with Diane White leading the group. Meet at the BLM parking lot to leave at 8 am. For information call Russ Holmes at 672-4635.

Willamette Valley

- July 10th, Sat. **Field Trip** to Table Rock Wilderness Area, east of Molalla. Jim Irving, BLM botanist, will show us this dramatic part of the Cascades that has outstanding displays of Washington lilies and cliff plants. Call 371-1025 for details.
- July 19th, Mon. **Meeting / Field Trip:** We plan to tour the Gaylor property in West Salem. This land has recently been granted to the Salem Audubon Society (SAS). We will have Mark Wigg (President of SAS) on hand to discuss history and our potential involvement in this exciting project. Please meet at 7 pm at the West Salem Roth's IGA grocery store parking lot (just off Wallace Road—lets meet in the lot near Wallace Road) to get directions to the site. For additional information call Kathy at 327-1212.
- July 23-25th, Fri.-Sun. **Crater Lake National Park:** If there is sufficient interest, we'll spend a long weekend discovering the beautiful flora of Oregon's only National Park. Want to go? Call Barbara Halliday at 371-1025 for details.
- Early August, Tue.-Thur. **Steens Mountain:** A mid-week trip to see this scenic area that is renowned for its wildflower displays, including many alpinines. Call Clint Urey at 393-0886 for details. National Forest Botanist, will lead this trip to see *Aster gormanii*. Call 371-1025 for details.

- Aug. 7th, Sat. **Field Trip** to Rooster Rock State Park wetlands. Margie Willis, Oregon State Parks Botanist and NPSO member, will show us wapato in bloom in one of its few remaining localities, plus fringed loosestrife and purple loosestrife, an invasive alien plant. Call 371-1025 for details.
- Aug. 14th, Sat. **Field Trip** to Phantom Arch and Phantom Ridge north of Detroit Lake. Mike Roantree, Willamette National Forest Botanist, will lead this trip to see *Aster gormanii*. Call 371-1025 for details.

William Cusick

- July 3rd, Sat. **Field Trip.** Marty Stein will lead a trip to Hurricane Creek on the north side of the Wallowa mountains. Hurricane Creek is a treasure trove of rare plant species ranging from those associated with the uncommon limestones to the alpine species. Some, known in Oregon only from Hurricane Creek, include northern sedge (*Carex concinna*), one leaf rein orchid (*Plantanthera obtusata*) and yellow bog sedge (*Carex dioca*) as well as other rare species such as the yellow avens (*Dryas drummondii*) and northern twayblade (*Listera borealis*). The hike is moderate. A round trip of six miles should do it. Call Marty at 426-4978 (W), 426-3443 (H).
- July 18th, Sun. **Field Trip.** Marty Stein and Paula Brooks will be available to lead tours on Mount Howard overlooking Wallowa Lake. A tram runs from the south end of Wallowa Lake to the top of Mount Howard at 8,300 feet. This is one of two known locations for Greenman's lomatium (*Lomatium greenmanii*). Cost of the tram ride is \$10.00 for a round trip. This trip is the day after Jazz at the Lake so check your camping spots early. Call Marty or Paula 523-6391 (W), 523-7564 (H).

Membership Directory Published

NPSO's 1993 Membership Directory was mailed in late May. Anyone who paid for a Directory but did not receive one should write or call the Membership Chair.

At its Fall 1992 meeting the NPSO Board of Directors decided that the Directory would be sent only to those members requesting it and paying \$1. This was done as an experiment to learn how many members really wanted a directory.

NPSO's current membership is 815. Only 290 members requested the Directory, about 36%. The printing cost was \$1.10 each, and the bulk mailing cost was 10 cents each. By limiting distribution of the Directory, and charging for it, NPSO saved approximately \$900. We also avoided wasting natural resources in producing something that a majority of members did not want.

A few additional Directories were printed, and are available from the Membership Committee for \$2. (The cost of individual mailing is 75 cents, compared to 10 cents in bulk mail).

We anticipate that the next Directory, in 1995, will be handled similarly.

—Jan and Dave Dobak
Membership Committee

The Jean Davis Fund

This year's recipient of the Jean Davis Memorial Scholarship is Dorothy M. Blasing of Linfield College.

The Jean Davis Memorial Scholarship Fund was established in 1980 as a memorial to Jean Davis, a long term member of the Willamette Valley Chapter of the Native Plant Society of Oregon. The award is given to a person who has completed two years of college, has a primary interest in Plant Systematics or Plant Ecology, and wishes to pursue that interest at a four year Oregon college.

The fund has a permanent endowment of \$10,000 and additional funds on hand of \$3,200, which is used to make up the difference between the \$750 annual earning from the permanent endowment and the annual \$1,000 award. Contributions can be made to the fund, or any other NPSO fund, through the Membership Committee.

Plants of Hunter Creek

ensis), California oatgrass (*Danthonia californica*), and special status species Piper's bluegrass (*Poa piperi*), Bolander's onion (*Allium bolanderi*), Bolander's hawkweed (*Hieracium bolanderi*), and Howell's manzanita (*Arctostaphylos hispidula*). The dry meadows have scattered Jeffrey pine (*Pinus jeffreyi*) in a parklike setting.

North Fork Hunter Creek proposed ACEC is north of Hunter Creek bog and access is best from Signal Buttes on National Forest land. Currently a primitive trail system is in the ACEC from Signal Buttes. Along this trail one is provided with panoramic views of the Pacific Ocean as you walk through parklike stands of Jeffrey pine. When walking through the area you feel like you are in eastern Oregon, yet this area receives 150-175 inches of rainfall annually. These pine woodlands are habitat for the federal candidate Howell's microseris (*Microseris howellii*).

Another unique feature of North Fork Hunter Creek are the Oregon white oak savannas. This oak savanna is unique because they are so close to the ocean. Several stands occur in the open meadows. Species in the savanna include Bridge's triteleia (*Triteleia bridgesii*), camas (*Camassia quamash*), tufted hairgrass (*Deschampsia cespitosa*), and Lemmon's needlegrass (*Achnatherum lemmonii*).

Many large serpentine outcrops occur near these savannas and are characterized by spreading phlox, silky horkelia (*Horkelia sericata*), purple snake-root (*Sanicula bipinnatifida*) and wedge-leaf violet (*Viola cuneata*). Species of concern include Piper's bluegrass and Howell's manzanita.

North Fork Hunter Creek and its tributaries are bordered by red alder (*Alnus rubra*), bigleaf maple (*Acer macrophyllum*), California laurel (*Umbellularia californica*), and tanoak. These streams are important spawning and rearing habitat for chinook, steelhead and searun cutthroat as well as resident cutthroat trout.

These creeks include some of the finest examples of hardwood riparian vegetation on BLM land in western Curry County. Other vegetation found in the riparian zone includes giant chain fern (*Woodwardia fimbriata*) and Menzie's currant (*Ribes menziesii*). The special status Siskiyou trillium (*Trillium angustipetalum* = *T. kurabayashii*) has recently been located in the area.

Located about seven miles east of Gold Beach is Hunter Creek bog and springs and North Fork Hunter Creek. These areas are being proposed as Areas of Critical Environmental Concern (ACEC) under the draft Coos Bay District Resource Management Plan (RMP). The bog and springs contain the largest population of California pitcher-plant (*Darlingtonia californica*) on the Oregon coast. Rich deposits of nickel and cobalt surround and underlay the bog and springs. Mining claims have been recorded for the entire area and adjacent lands administered by both the US Forest Service (USFS) and Bureau of Land Management (BLM).

This area contains the greatest diversity of plants on the Coos Bay District. Many of these plant communities are unique because the soil is of serpentine origin and they are within influence of the marine climate. Special status species include the federal candidate Mendocino gentian (*Gentiana setigera*) and large uninfected stands of Port Orford cedar (*Chamaecyparis lawsoniana*). Other species present in the bog and springs include sticky tofieldia (*Tofieldia occidentalis* var. *occidentalis*), bog asphodel (*Nartheceum californicum*), Labrador tea (*Ledum glandulosum*), California coffeeberry (*Rhamnus californica*), California lady's slipper (*Cypripedium californicum*), Vollmer's tiger lily (*Lilium pardalinum* spp. *vollmeri*), round leaved sundew (*Drosera rotundifolia*), western azalea (*Rhododendron occidentale*), and California cone flower (*Rudbeckia californica* var. *glauca*).

Surrounding the bogs and springs are forest-shrub communities dominated by knobcone pine (*Pinus attenuata*), western white pine (*P. monticola*), Pacific madrone (*Arbutus menziesii*), canyon live oak (*Quercus chrysolepis*), red huckleberry (*Vaccinium parvifolium*), and tanoak (*Lithocarpus densiflorus*). Herbaceous species include gold-threads (*Coptis laciniata*), Oregon fawn lily (*Erythronium oregonum*), brook trillium (*Trillium rivale*), fairy slipper (*Calypso bulbosa*), and Oregon anemone (*Anemone oregana*).

Ridgetops are composed of serpentine outcrops and meadows composed of many species, including: Howell's lomatium (*Lomatium howellii*), rock phacelia (*Phacelia corymbosa*), spreading phlox (*Phlox diffusa*), common juniper (*Juniperus communis*), Parry's hawkweed (*Hieracium parryi*), California milkwort (*Polygala californica*), Siskiyou bedstraw (*Galium ambiguum* spp. *siskiyou-*

Once the final RMP is signed, the Coos Bay District BLM will be developing ACEC management plans for both Hunter Creek bog and North Fork Hunter Creek. One of the main issues to be addressed will be the protection of rare species and unique plant communities, and potential future mining. If you would like information about the area or get on a mailing list for input on the upcoming plan, contact Bruce Rittenhouse at 888-9328.

On Saturday July 17th, there will be a field trip into this area. See the South Coast Chapter news in front of this *Bulletin*.

New NPSO "Oregon's Rare Wildflowers" Poster Available

This stunning poster of the Columbia River Gorge area is now available. The 20" by 26" work of photographic art depicts scenic Punchbowl Falls and three of the Gorge's rare endemic wildflowers. The reverse side discusses the ecology of the Gorge and the mission of the NPSO.

The posters are available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701 (503-389-6981 evs.). Individuals may order posters at a price of \$12 per poster plus \$3 per order for shipping. Chapters may choose to sell posters for \$12 retail as chapter fundraisers. Posters will be rolled and mailed in 24 "by 2" tubes. Support NPSO's conservation and educational missions by purchasing and selling these beautiful posters!

NPSO Window Stickers

The NPSO window stickers are decals with our trillium logo in green over an opaque white background. They can go on the inside of your car or other windows.

Order them from the High Desert Chapter NPSO, c/o Stu Garrett, at 21663 Paloma Drive, Bend OR 97701. They are \$1 each and minimum order is 5.

Help Save *Fritillaria gentneri*

Many people in the Jacksonville area have joined together to purchase two wooded areas which were donated by early pioneer families to the University of Oregon and Southern Oregon State College. The 20 acre Beekman Woods was donated by the Beekman family. Cornelius Beekman was the first banker in southern Oregon. The 70 acre Britt Woods site was formerly owned by historic photographer Peter Britt. Last spring 150 rare *Fritillaria gentneri* plants were found in Britt Woods and an adjoining BLM parcel. This is the largest known population of this species. Much of its habitat has been lost to development as it mostly grows at low elevations. These two woodlands would help retain the historic wooded character of Jacksonville and also make a nice *Fritillaria gentneri* preserve.

Groups involved in this project include the Southern Oregon Land Conservancy, City of Jacksonville, and the Children of Jacksonville. The Children of Jacksonville recieved a \$7,500 Amway grant for this project. Several matching challenges have been made and one is now in progress. Siskiyou Chapter member Ramona Osburn has offered to match up to \$1,000 sent in for the Britt Woods. If you would like to help purchase these woodlands and protect a large population of a rare plant, send your donations to: Jacksonville Woodlands Association, PO Box 1210, Jacksonville OR 97530. Please note to apply your gift to Ramona Osburn's challenge. The Association is a non-profit organization, so your donation is tax-deductable.



Darlingtonia californica
California pitcher plant
Drawn by Jennifer Sperling, Coos Bay BLM

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PUBLICATIONS

GUIDELINES FOR CONTRIBUTORS

Membership in the Native Plant Society of Oregon is open to all.

The NPSO *Bulletin* is published monthly as a service to NPSO members and the public. Contributions of all types are welcome.

DEADLINE: Copy is due with the editor by the 10th of each month.

Submissions can be in any form. Author's name & affiliation are at the end of the article. Double space between paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide. Formatting assistance is available from your editor. All *Bulletin* articles now go into the new NPSO database via computer. Camera-ready copy is not used, with rare exceptions.

Computer output: The editor prefers LONGER articles be on 3.5" Macintosh or IBM disks, or via modem. Contact the editor for details.

Illustrations: Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.

Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.

Scientific Names: Nomenclature should follow *Flora of the Pacific Northwest*, by Hitchcock et al., when appropriate. Use both scientific and common names if possible. Italicize genus and species, or underline.

Return of Originals: Submissions are not returned unless requested.

Membership applications, renewals, and changes of address (include old address and zip code) should be sent to the Membership Chair.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Chapter (if known) _____

Address _____

Is this a change of address?

If so, please write your *Old Address* here: _____

City _____ State _____ Zip+4 _____ - _____

Phone (Home) _____ (Work) _____

City _____ State _____ Zip _____

* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

() New	() Renewal	() Quarter Membership (Sep.-Dec.) \$3.00	() <i>Bulletin</i> Subscription only \$12.00
() Student.....	\$ 8.00	() Sustaining.....	\$ 30.00
() Regular.....	12.00	() Patron.....	100.00
() Family Membership.....	18.00	() Life Member	500.00

* CONTRIBUTIONS:

Jean Davis Memorial Fund. \$ _____
 Leighton Ho Memorial Award Fund. \$ _____
 Rare and Endangered Plant Fund. \$ _____

* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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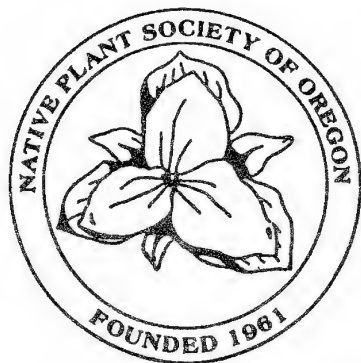
MEMBERSHIP INQUIRIES: Jan Dobak, 2584 NW Savier Street, Portland OR 97210-2412

For more Native Plant Society of Oregon information, see the inside back cover.

Send change of address notices
and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair,
2584 NW Savier St., Portland
Oregon 97210-2412

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Dedicated to the enjoyment, conservation, and study of
Oregon's native vegetation

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Chapter News

Blue Mountain

For information, contact Chapter President Jerry Baker at (503) 566-3381.

Corvallis

Aug. 28th, Sat.

For summer field trips, meet in the parking lot opposite the Monroe Street Beanery.

Field Trip to Browder Ridge near Tombstone Pass. A joint trip with the Sierra Club. For information call Duncan Thomas at 752-6529.

Emerald

More information? Call Bruce Newhouse (President) at 342-2364 or Ethan Perkins (programs) at 345-3944.

High Desert

Aug. 7th & 8th,
Sat. & Sun.

Field Trip to Crater Lake National Park. A census for the rare pumice grapefern is the highlight of this trip to Oregon's crown jewel. USFS Botanist Cindi O'Neil will be trip leader. We will overnight tent camp in the park and hike moderately. Contact Cindi for details at (503) 389-3985 evenings.

Aug. 21st, Sat.

Field Trip to Broken Top Volcano. Our annual trek to the spectacular glaciated scenery and alpine wildflowers west of Bend. This is a five mile round trip, moderate to strenuous hike with a 1,500 foot elevation gain. We'll do mostly off-trail hiking through the Three Sisters Wilderness. The number of hikers is restricted due to USFS regulations on wilderness travel. Pre-registration is required. Call trip leader Stu Garrett for sign-up at 389-6981 evenings.

Mid-Columbia

Aug. 4th, Wed.

Barbecue Potluck at the Igo Acres. If you don't know the way, meet at the Mosier School at 7 pm.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIPS CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas should be no larger than 12.

North Coast

Aug. 5th, Thu.

Potluck Picnic at Kilchis Park at 6 pm. Call Jim Winslow at 842-4131 for information.

Meeting: No meeting in August.

Portland

Aug. 8th, Sun.

Field Trip to Monte Cristo in the Gifford Pinchot National Forest. This is an 8 mile hike to wonderful rock gardens and views of Mount Adams. Leave at 8 am from Lewis and Clark State Park. Second meeting place will be at Hood River Inn's west parking lot at 9 am. Leader is Elizabeth King (292-6539).

Meeting: No meeting in August.

August 21st, Sat.

Field Trip: John Davis from the Zigzag Ranger District will lead a field trip in the Mount Hood National Forest as a follow-up to his July meeting discussion of non-tree products in the forest. Leave from Ashley's on Hwy. 26 at the Boring Exit at 8 am. Second meeting place will be the Zigzag Ranger Station at 9 am.

Siskiyou

Aug. 14th, Sat.

Field Trip to Sphagnum Bog in Crater Lake National Park. Wayne Rolle, Forest Botanist for the Rogue River National Forest, will lead the hike. Meet at the Medford K-Mart (near McDonald's) at 8 am or at the Prospect Ranger Station at 9 am. Hiking is seven miles total round trip, in gentle terrain, with some cross-country. Plan on wet feet. For more information call 482-0093.

Sept. 16th, Thur.

Meeting and Potluck. It's time to resume our meetings. Plan on a potluck before the meeting. Bring 5 of your favorite slides to share at our meeting in Room 171 of the Science Building at SOSC at 7:30 pm. More details on potluck time and location to be announced in the September *Bulletin*.

Sept. 18th, Sat.

Field Trip to Bolan Lake. Anita Seda, botanist for the Illinois Valley Ranger District, will lead us on a trip to Bolan Lake. Leave from the Medford Food 4 Less at 8 am or from the Illinois Valley Ranger Station at 9:30 am. For more information, leave a message for Barbara Mumblo at 734-0424 or call Anita at 471-8989.

South Coast

For information call Bruce Rittenhouse at 756-0100 (w) or 888-9328 (h).

Umpqua Valley

Aug. 21st, Sat.

Combined **Meeting, picnic and field trip** to Bull Pup Lake and possibly Reynolds Ridge area if time permits. Leave at 8 am from the BLM parking lot, 777 NW Garden Valley Blvd. Call Mildred Thiele at 673-5397 for more information.

Willamette Valley

Aug. 16th, Mon.

Meeting : Glen and Barbara Halliday (long-term botanical enthusiasts / plant sleuths) will delight us with a slide program on "Wildflower Hotspots in Oregon". We will be meeting back indoors at 7 pm in Room 225 of the First United Methodist Church, 600 State Street, Salem. For additional information call Kathy Connelly at 327-1212.

Early August,
Tue.-Thur.

Steens Mountain: A mid-week trip to see this scenic area that is renowned for its wildflower displays, including many alpine. Call Clint Urey at 393-0886 for details.

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Field Trip to Rooster Rock State Park wetlands. Margie Willis, Oregon State Parks Botanist and NPSO member, will show us wapato in bloom in one of its few remaining localities, plus fringed loosestrife and purple loosestrife, an invasive alien plant. Call 371-1025 for details.

Aug. 14th, Sat. **Field Trip** to Phantom Arch and Phantom Ridge north of Detroit Lake. Mike Roantree, Willamette National Forest Botanist, will lead this trip to see *Aster gormanii*. —one of Oregon's Rare or Threatened P Plants. If time allows, we'll also visit Opal Lake Meadow where gentian and spirea should be blooming. Moderate hiking, about 5 miles round trip. Call 371-1025 for details.

August 21st, Sat. **Field Trip:** Ancient Trees of Crabtree Valley. A glacial cirque has protected the huge Douglas fir, western hemlock and western red cedar of this valley for more than 700 years—they are among the oldest remaining trees in Oregon. Claire Hibler, BLM Habitat Specialist, will show us this very special place—and maybe where the ripe blueberries grow too! Moderate walking. Call 371-1025 for details..

William Cusick

For information, call Bob Ottersberg at (503) 963-4907

Welcoming Our New Members—

51 new members joined the Society from May 2nd to July 17th:

At Large

Paul Mitchell

Blue Mountain

Marilyn Cripe

Bob & Lynn Tompkins

Corvallis

Jim Faulkner

Lisa Lantz

Susan K. Stevens

Linda & Brad Taylor

Emerald (Eugene)

Susan Binder

Kyle Hammon

Linda Milne

Susan L. Sheppard

Andrew S. Tessandori

Leslie B. Wright

High Desert

Gary & Cathy Bickford

Monet Brossert

Sharon Cyrus

Chris & Madelle Friess

Chris & Robert Frisbee

Susan E. Harless

Bob & Janet Harrison

Cynthia Ledder

North Coast

Katheryne McKenzie

Mary Lee Nicholson

Christine A. Stanley

Portland

Claire Amsden

Kerry Arkell

Sharon Blair

Estella K. Casto

Karen James

Doris R. Hewett

Susan Leeb

Oswego Lake Country Club

Paul D. Otto

Nancy B. Palmer

Armand Rebeschke

Jon Shane

Lee Sliman

Sherry Spencer

Joyce L. Stewart

Tyrrell Sweetman

Ann Whitesides

Siskiyou

Mary Endicott

Jamie Hutchinson

Susanne Kreig

Don & Lolly Skillman

Beth Whitman

Umpqua Vally

Dan & Jody DeLand

James & Arlene Struck

Willamette Valley

Richard Benson

Ken Stuart Berg

William Cusick

Margaret Durner

NPSO Window Stickers

The NPSO window stickers are decals with our trillium logo in green over an opaque white background. They can go on the inside of your car or other windows.

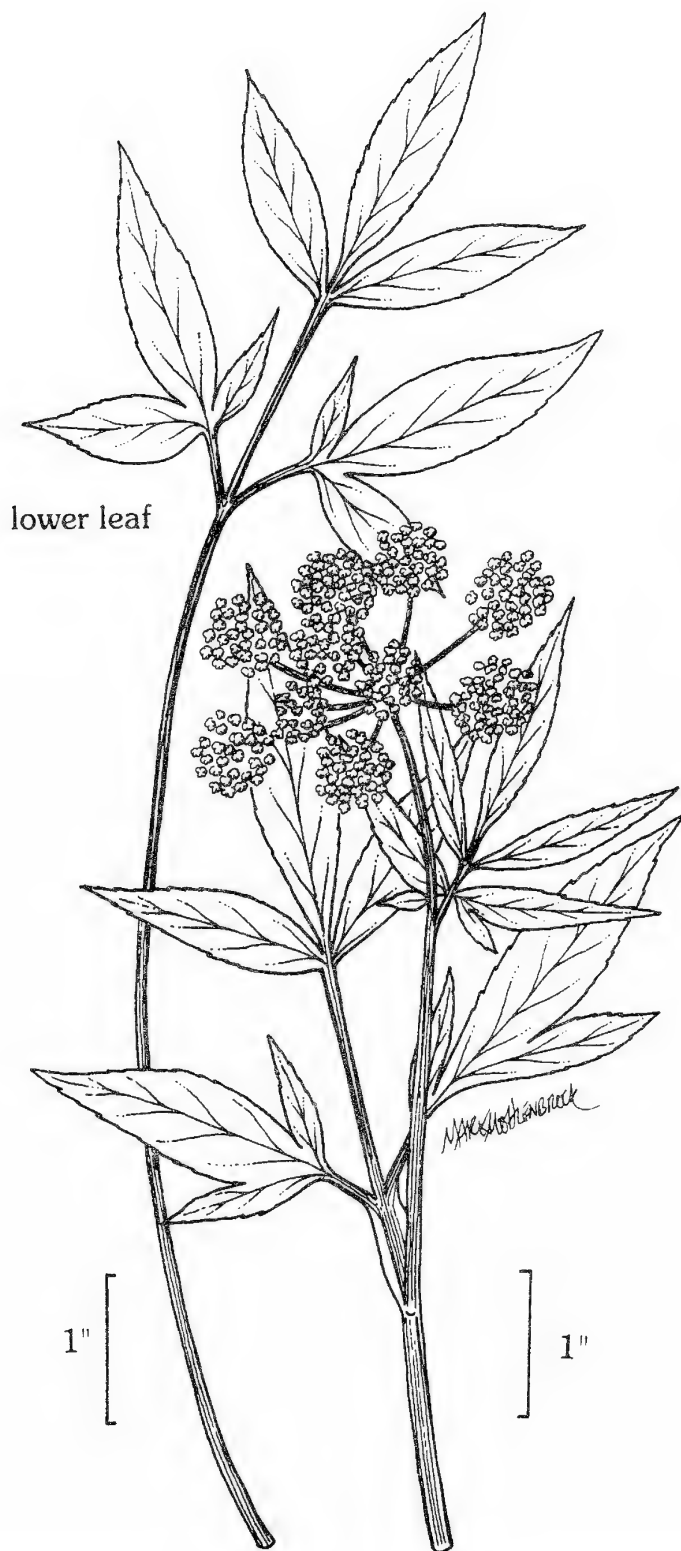
Order them from the High Desert Chapter NPSO, c/o Stu Garrett, at 21663 Paloma Drive, Bend OR 97701. They are \$1 each and minimum order is 5.

New NPSO 'Oregon's Rare Wildflowers' Poster Available

This stunning poster of the Columbia River Gorge area is now available. The 20" by 26" work of photographic art depicts scenic Punchbowl Falls and three of the Gorge's rare endemic wildflowers. The reverse side discusses the ecology of the Gorge and the mission of the NPSO.

The posters are available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701 (503-389-6981 eves.). Individuals may order posters at a price of \$12 per poster plus \$3 per order for shipping. Chapters may choose to sell posters for \$12 retail as chapter fundraisers. Posters will be rolled and mailed in 24 "by 2" tubes. Support NPSO's conservation and educational missions by purchasing and selling these beautiful posters!

Lyall's angelica
Angelica arguta
Drawn by Mark Mohlenbrock
From Western Wetland Flora



STATE OFFICERS

DIRECTORS Jenny Dimling, Jerry Igo, Veva Stansell, Margie Willis, Nancy Wogen, Peter Zika
 PRESIDENT Lisa Croft 699 W. 2nd, Prineville 97704; 447-5270
 IMMEDIATE PAST PRESIDENT Stephanie Schulz 652 W. 10th St. #1, Eugene 97402; 485-1868
 VICE PRESIDENT Rhoda Love 393 FulVue Dr., Eugene 97405-2706; 345-6241
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 LEGISLATIVE Esther McEvoy 3290 Willamette, Corvallis 97333; 754-0893
 MEMBERSHIP Jan Dobak 2584 NW Savier St., Portland 97210; 248-9242
 WILDFLOWER POSTERS Jennifer Dimling PO Box 920, Eugene 97402; 343-3242
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 WILLAMETTE VALLEY (Salem) Jim Crane 3837 Hart Dr. N, Keizer OR 97303-5945; 393-0798
 WM. CUSICK (LaGrande) Bob Ottersburg PO Box 885 LaGrande 97850; 963-4907

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 KALAMOPSIS EDITOR Frank Lang 535 Taylor St., Ashland 97520; W-552-6341; H-482-5235

PUBLICATIONS

GUIDELINES FOR CONTRIBUTORS

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Submissions can be in any form. Author's name & affiliation are at the end of the article. Double space between paragraphs. For special materials (e.g., plant keys) choose an appropriate format, keeping in mind that readers may wish to carry your article pasted inside their favorite field guide. Formatting assistance is available from your editor. All *Bulletin* articles now go into the new NPSO database via computer. Camera-ready copy is not used, with rare exceptions.

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Illustrations: Line drawings, prints, and high contrast B&W prints are useable. Some Macintosh graphics can be used also. Contact the editor about our current needs, or send them along with your article.

Credits: If the item is not original, name and date the source. For original items, identify the author and indicate, for news items, if a by-line is desired. Indicate whether the item is to be used in its entirety or excerpted at the editor's discretion.

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NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____ Chapter (if known) _____
 Address _____ **Is this a change of address?**
 If so, please write your *Old Address* here: _____
 City _____ State _____ Zip+4 _____ - _____
 Phone (Home) _____ (Work) _____ City _____ State _____ Zip _____

* **DUES** include monthly NPSO *Bulletin*. Full membership is for a calendar year, January through December. New memberships enrolled during September through December are charged a reduced "Quarter Membership" rate.

() New	() Renewal	() Quarter Membership (Sep.-Dec.) \$3.00	() <i>Bulletin</i> Subscription only \$12.00
() Student.....	\$ 8.00	() Sustaining.....	\$ 30.00
() Regular.....	12.00	() Patron.....	100.00
() Family Membership.....	18.00	() Life Member	500.00

* **CONTRIBUTIONS:**
 Jean Davis Memorial Fund..... \$ _____
 Leighton Ho Memorial Award Fund..... \$ _____
 Rare and Endangered Plant Fund..... \$ _____

* All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues and contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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NATIVE PLANT SOCIETY OF OREGON Post Office Box 902, Eugene, OR 97402

MEMBERSHIP INQUIRIES: Jan Dobak, 2584 NW Savier Street, Portland OR 97210-2412

For more Native Plant Society of Oregon information, see the inside back cover.

Send change of address notices
and membership requests to:
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Jan Dobak, Membership Chair,
2584 NW Savier St., Portland
Oregon 97210-2412

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Bulletin of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of
Oregon's native vegetation

Volume 26 Number 9

September 1993

ISSN 0884-599

Chapter News

Blue Mountain

For information call Chapter President Jerry Baker at 503-566-3381

Corvallis

For information call Esther McEvoy at 503-754-0893.

Emerald

Sept. 27, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Dale McBride will give a presentation on photographing plants.
Directions to meetings: From downtown Eugene, take Willamette St. south to Crest Dr. (Right through Y for Donald, between 32nd & 33rd Ave. E) Turn right (W) on Crest and go about 4 blocks. Turn right into Morse Ranch Park parking lot. Walk east to the white farmhouse.

High Desert

Sept. 28, Tues. **Potluck Dinner:** 6:30 P.M. at Cindi O'Neil's house, 22100 Sweetgrass Drive, Bend.
Tel. 389 - 3085.

Mid-Columbia

Sept. 1, Wed. **Meeting:** 7:30 P.M. at Mosier School. Ted Bryant, from the U.S. Soil Conservation Service in The Dalles,, will speak on soil conservation in Iceland using lupines.

North Coast

Sept. 28, Tues. **Meeting:** 7 P.M. in Carl Rawe Meeting Room, Tillamook PUD, 1115 Pacific, Tillamook.

IMPORTANT NOTES FOR FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and / or hazardous. Please contact the trip leader or chapter representative about difficulty, mileage and terrain to be expected on field trips. Bring water and lunch. Participation is at your own risk. All NPSO field trips are open to the public at no charge (other than carpool mileage), and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIPS CHAIRS AND LEADERS:

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason for this is to limit human impacts on these often fragile areas. Each group using wilderness areas should be no larger than 12.

LIBRARY

SEP 27 1993

NEW YORK
BOTANICAL GARDEN

Portland

- Sept. 14, Tues. **Meeting:** 7 P.M.. at the First United Methodist Church, 1838 SW Jefferson St., Portland. Lisa Croft, NPSO President, will speak on: "What the future holds for NPSO across the State: Issues, responsibilities, action..."
Field Trip: Notrips scheduled.

Siskiyou

- Sept. 16, Thurs. **Meeting and Potluck:** 6 P.M. potluck at Glenwood Park (1 block west of junction of Mountain and Ashland Sts.). Bring plates, silverware and something to share. 7:30 meeting in room 171 of Science Building of SOSOC. Bring five of your favorite slides.
- Sept. 18, Sat. **Field Trip:** Anita Seda, Illinois Valley Ranger District botanist, will lead a trip to Bolan Lake. Meet at 8am Medford Food 4 Less and Illinois Valley Ranger Station at 9:30. For more information call Anita at 471-8989 or leave message for Barbara Mumblo at 734-0424.
- Oct. 16, Sat. **Field Trip:** Gene Parker, conifer enthusiast, will lead a hike up Nabob Ridge in the high Siskiyou Crest on the Applegate Ranger District to see the Pacific Silver Fir. Meet at Star Ranger Station at 9 A.M. The trip will last all day and be moderately strenuous.

South Coast

- Sept. 11, Sat. **Field Trip:** To North Spit of Coos Bay to see coastal salt marshes. We will see *Cordylanthus maritimus* ssp *palustris* and *Limonium californicum*. Easy walking. Meet at Coos Bay Chamber of Commerce on Highway 101 at 9 A.M. Call Bruce Rittenhouse for more information at (756-0100 W or 888-9328 H0.

Umpqua Valley

- Sept. 9, Thurs. **Meeting:** 7 P.M.. Douglas County Courthouse, room 311.
- Sept. 11, Sat. **Field Trip:** To see *Aster vialis* and then on to explore the Tater Hill RNA. Meet at the BLM parking lot at 7:45 A.M. for 8 A.M. departure. Call Russ Holmes at 672-4635 for information.

Willamette Valley

- Sept. 20, Mon. **Meeting:** 7 P.M. in room 225 of the First United Methodist Church, 600 State St., Salem Dennis Isaacson will speak on "The effects of noxious weeds on native plants. Call Mark Quistad for more information.

William Cusick

For information, call Bob Ottersberg at (503) 963-4907

DANCES WITH FLOWERS BOTANY IN THE UMATILLA NATIONAL FOREST

Sharp topographic features have produced enormous diversity in microhabitat for plant life in the Umatilla National Forest. Botanists from all over the world are constantly amazed at the number of "Cascadia refugia" species that occur in the Forest. The Forest's floristic biodiversity is truly remarkable. Species encounter lists have been maintained for sensitive plant surveys since 1982. Up to the present (March, 1993), 1,127 different taxa have been found in the Forest and the list is not yet complete. This floristic diversity represents approximately 25% of the taxa known from the states of Oregon and Washington. Each district of the Forest has its own special qualities, special microhabitats and special plants.

The District checklist for the Heppner Ranger District presently stands at 770 species. The arid scablands of this District support such xerophytic species as bitterroot (*Lewisia rediviva*) and the flagellate pussytoes (*Antennaria flagellaris*). The umbellate springbeauty (*Claytonia umbellata*) grows in slopeside rock channels, far removed from its known population center in Central Oregon. Scabland seeps of the Heppner District support limited populations of the sensitive species Washington monkey-flower (*Mimulus washingtonensis*). The Umatilla is the only Forest known to have this species, although other populations are found on BLM lands to the south. Remarkably, this seemingly arid District also supports mesophytic species like salal (*Gaultheria shallon*), some 180 miles east of its reported geographic range.



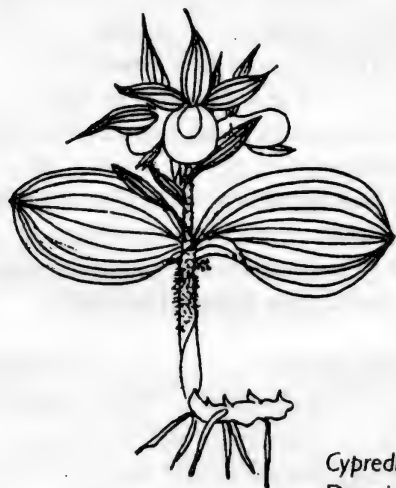
Mimulus washingtonensis
Drawing by Karl Urban

The North Fork John Day District checklist presently stands at 794 species. High elevation range seepage areas in the NFJD District support the moisture-loving stiff clubmoss (*Lycopodium annotinum*), a formerly listed species. The serpentine interface in the south end of the District supports relatively large populations of the Shasta fern (*Polystichum mohrioides* or *P. lemmonii*). Lodgepole-spruce associations of this District have known populations of eight different species of grapefern (*Botrychium* spp.), five of which are considered sensitive at the present time. High elevation talus slopes in this District also support Brewer's cliff-brake fern (*Pellaea breweri*). A single population of Sierran onion (*Allium campanulatum*) was found in this District in 1982.

The Walla Walla District receives an abundance of moisture and its biodiversity reflects this ecological advantage. The Walla Walla District checklist presently stands at 807 species. The world's only known populations of *Lupinus sabini* (Sabin's lupine) occur here in abundance, along the spine of the central Blue Mountains. "Cascadium refugium" species occur with remarkable frequency in this district, including the woodland beardtongue (*Nothochelone nemorosa*), giant horsetail (*Equisetum telmateia*), and the Oregon-sensitive male fern (*Dryopteris filix-mas*).

Near timberline conditions are reached in this district near Table Rock. This is the type of locality for the sensitive subalpine spiraea (*Spiraea densiflora splendens*). The Table Rock area of the district also supports the only known population of the Sierran onion (*Allium campanulatum*) found in the state of Washington. Scablands in the southern portion of this district support the newly-proposed species, *Lomatium pastoralis*. The riparian zones of this district are remarkably luxuriant and will undoubtedly contain many botanical treasures once they are studied in depth. The Walla Walla District also supports majestic, apparently-relict stands of *Pinus monticola*, the Western white pine.

The Pomeroy Ranger District of the Umatilla National Forest contains many botanical treasures and its plant list presently consists of 704 species. Several patches of the "Cascadium refugium" species Devil's club (*Oplopanax horridum*) occur in riparian zones in this District. The orange balsam, *Impatiens aurella*, inhabits swampy areas along the Tucannon River. The Forest's only known occurrence of the clustered lady's slipper orchid (*Cypripedium fasciculatum*) occurs in this District in two widely separated populations.



Cypripedium fasciculatum
Drawing by Karl Urban

The world's only known population of Blue Mountain onion (*Allium dictyon*) grows on Weller Butte in the Wenaha-Tucannon Wilderness which is administered by the Pomeroy District. Scattered populations of the Washington-sensitive Umatilla gooseberry (*Ribes oxycanthoides cognatum*) occur in the lower riparian zones of this district.

When I first came to the Blue Mountains twenty five years ago, I intended to spend one year, before going on to doctoral studies at the University of California/Davis. Apparently a career in botanical histochemistry just wasn't in the cards. The fascinating plant life of the Blue Mountains held me here like a magnet of insatiable curiosity. This little known land of rippling waters (Umatilla) has witnessed my cartwheels of discovery, my forays of curiosity, and my dances with flowers. I love it!

—Karl Urban
Forest Botanist
Umatilla National Forest

MEMBERS MAY BE INTERESTED

Showdown at Opal Creek has recently been published by Carroll & Graf, priced at \$22.95, and written by David Seideman. It is also available in many Oregon libraries. The cast of characters will no doubt be familiar.

THE PLANT PUZZLE

SPONSORED BY THE SISKIYOU CHAPTER

The May puzzle has yet to be solved. A trip up the Amazon might be necessary. Here it is again!

Name three vascular plants native to the waterways of both Brazil and Oregon. They must be in different plant families. One example is *Najas guadalupensis*, which is found in ponds on the Oregon coast as well as in backwaters of the Brazilian Amazon. The first person to give the correct scientific name will win a prize. Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Place, #1
Corvallis, OR 97330

NPSO GRAZING POLICY FINAL DRAFT

The NPSO acknowledges the importance of the issue of domestic livestock grazing on lands and waters of our state. We see it as involving not only the biological diversity of our state but also the lives of many of its people. We recognize that many lands in Oregon have been adversely impacted by livestock grazing. NPSO's goal is to prevent any further damage to natural resources and to encourage the restoration of lands that have been damaged. We wish to emphasize science-based management for healthy native ecosystems, restoration of degraded lands, and cooperative approaches between agencies, landowners, permittees and interest groups.

Therefore, on publicly owned land:

1. NPSO advocates the full protection of riparian and wetland systems from degradation by domestic livestock. We advocate protection of the vegetation, natural water supply, water quality, and soils in these areas.
2. NPSO supports the restriction of grazing on public grasslands with remaining native bunchgrass communities that are judged to be in the best ecologic condition (less than 1% by BLM surveys) or land on which there is a downward trend in ecologic condition.
3. NPSO supports the elimination of grazing from specially designated lands including Research Natural Areas, wilderness areas, relict areas, wild and scenic river corridors, national parks, wildlife refuges, national monuments, Areas of Critical Environmental Concern, Wilderness Study Areas and other special natural areas.
4. NPSO particularly supports the protection of rare components of biologic communities that are threatened with extinction.
5. NPSO acknowledges the threat to native plant communities from the invasion of alien, non-native plant species, and we recommend appropriate management practices that halt and reverse this trend.
6. NPSO opposes revegetation practices in which native plant communities are replaced with monocultures of exotic plants, as with crested wheat-grass plantings.
7. NPSO acknowledges the impacts that management of surrounding private lands have on public lands and resources. These impacts include streamflows, integrity of riparian areas, invasion by alien plants and animals, and desired populations of native animals. NPSO therefore supports educational programs, regulations, and tax incentives which encourage good private land management.
8. In support of NPSO's educational and scientific mission, we strongly urge comprehensive studies comparing the ecology of grazed and ungrazed ecosystems. Few such studies have been carried out and scientifically gathered knowledge is the basis for rational management decisions.
9. NPSO encourages efforts to upgrade the condition of public lands and supports the goal of having all lands in excellent ecological condition. We support use of fire and native plant restoration as management tools, particularly where control of woody species is important.
10. We recognize that allotment stocking rates during years of average rainfall may have disastrous effects during drought years and therefore strongly urge land managers to develop grazing plans based on dry year forage.
11. NPSO supports cooperative ventures and partnerships where private and public land can be managed using principles of landscape ecology and ecosystem management. We see discussion and cooperation as productive approaches to land management challenges.
12. NPSO recognizes the damage that feral horses and burros have caused and asks for their control or elimination.

To suggest changes or additions to this policy proposal, please contact: NPSO President, Lisa Croft

ONRC FALL EVENTS

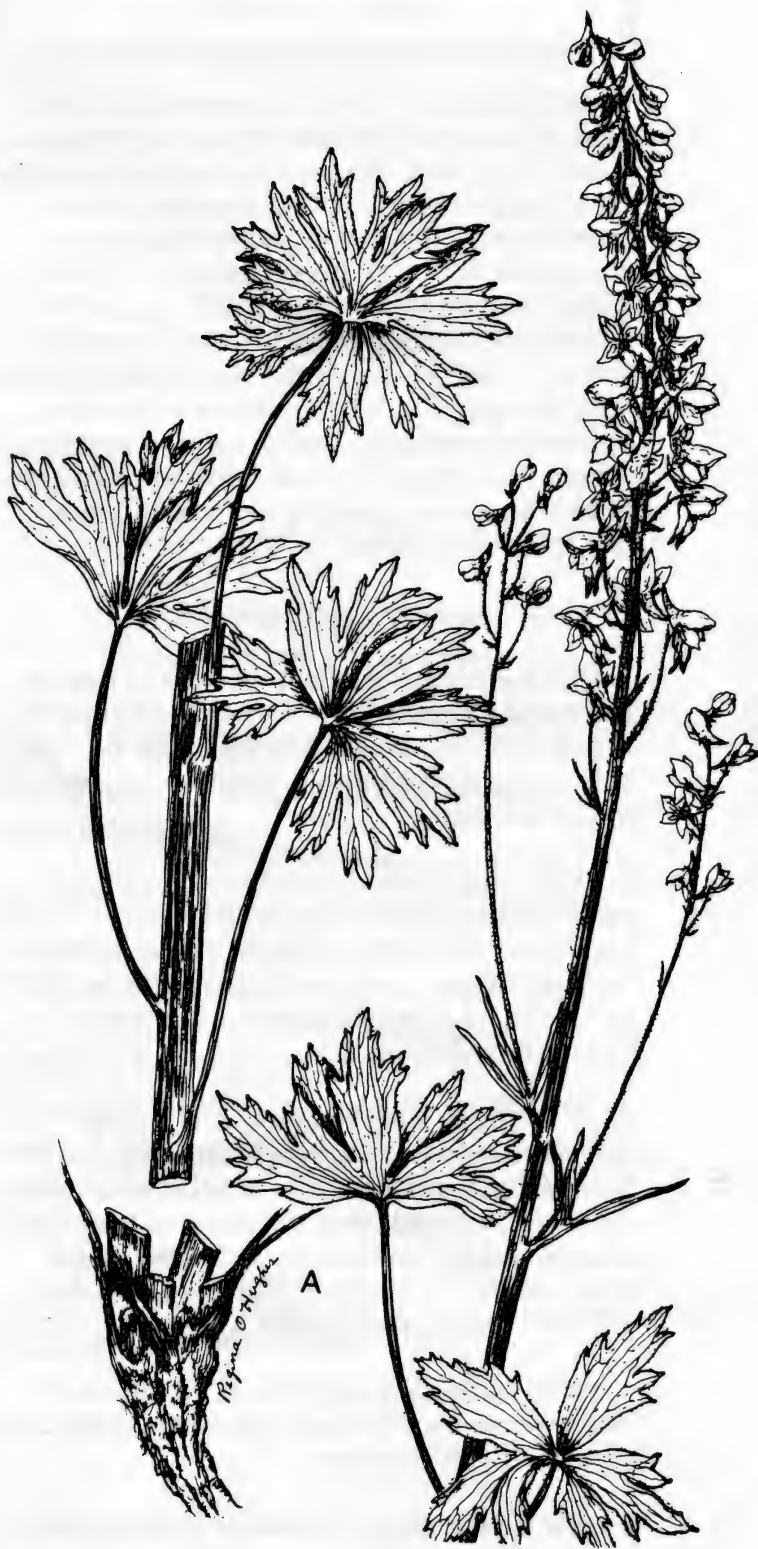
The Oregon Natural Resource Council's 21st annual conference will be held from Friday, 9/24 to Sunday, 9/26 at Sunriver Resort near Bend. It will feature panels, workshops, field trips and more. Call Michael Carrigan at 223-9001, Ext. 206.

ONRC will host the 4th annual Coast and Oceans Conference, Saturday and Sunday, Oct. 16-17 at the Marine Science Center, Newport. Coastal salmon, marine sanctuaries, land use and development and ancient forests will be some of the subjects. Registration is \$40 for both days, \$25 Saturday only.

Call Michael Carrigan for this one too.

An Ancient Forest Picnic will be sponsored by ONRC on Sunday, 9/12, from 11 A.M. to 6 P.M. at Oxbow County Park.

Friends of ONRC are encouraged to come. Vegetarian barbecue on the banks of the Sandy River. Guided walks through ancient forests (with a special walk for children), swimming, volleyball, music and a raffle. Adults \$10, Two-parent families \$25, One-parent families \$15. Scholarships available for to those who work on the day of the event. One more time, call the busy Mr. Carrigan for more information.



Delphinium occidentale
Western delphinium
From Common Weeds of the United State

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UMPQUA VALLEY (Roseburg)	Ted Schattenkerk. 3805 Hwy #42, Winston 97496-9546; 679-6953
WILLAMETTE VALLEY (Salem)	Jim Crane. 3837 Hart Dr. N, Keizer OR 97303-5945; 393-0798
WM. CUSICK (LaGrande)	Bob Ottersburg. PO Box 885 LaGrande 97850; 963-4907

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BULLETIN EDITOR	John Robotham. 117 NW Trinity Pl #28, Portland 97209; 226-637
KALMIOPSIS EDITOR	Frank Lang. 535 Taylor St., Ashland 97520; W-552-6341; H-482-52

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Chapter (if known) _____

Address _____

Is this a change of address?

If so, please write your Old Address here: _____

City _____ State _____ Zip+4 _____

Phone (Home) _____ (Work) _____

City _____ State _____ Zip _____

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() New	() Renewal	() Quarter Membership (Sep.-Dec.)	\$3.00	() <i>Bulletin</i> Subscription only	\$12.00
() Student			\$ 8.00	() Sustaining	\$ 30.00
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Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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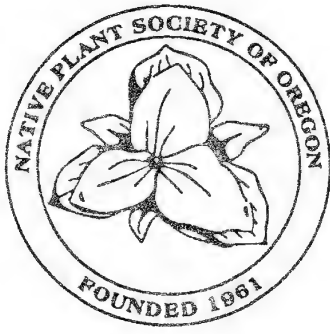
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Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 26 NUMBER 10

OCTOBER 1993

ISSN 0884-599

New Editor

A new Bulletin editor is at work. His name, address and telephone number are on the inside of the back leaf. He welcomes suggestions -- and comments

Chapter News

Blue Mountain

For information, call Chapter President Jerry Baker (566-3381).

Corvallis

Oct. 12, Tues. **Meeting:** 7:30 P.M., room 2082, Cordley Hall, OSU campus. Loren Russell to speak on "Gardening with natives." Call Keli Kuykendall, 758-8409 for information.

Emerald

Oct. 16, Sat. **Field Trip:** 8:30 A.M. Meet at South Eugene High School parking lot, 20th and Hil yard for riparian and stream restoration with Charley Dewberry. Bring lunch, and waders if you want to walk in the stream. Alternate meeting place: Mile post 15, on road to Mapleton, 10 A.M. Call Anna Moeckler, 485-0891.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

- Oct. 23, Sat. **Work Party:** 10 A.M. Morse Ranch ivy pull and blackberry removal. Bring shovels, gloves, loppers, pruners, water and lunch. Dress for rain or shine. Meet at picnic area. Your work pays for our use of the Park house for meetings.
- Oct. 25, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Advances in biological control of noxious weeds. Slide show and discussion with Glenn Miller, Oregon Dept. of Agr. weed specialist. Directions: From downtown Eugene, take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E.) Turn right (W) on Crest and proceed about 4 blocks. Turn right into Morse Ranch parking lot. Walk east to the white farmhouse.
- Nov. 13, Sat. **Field Trip:** Mushroom identification and collecting trip with Bruce Newhouse. Meet South Eugene H.S. parking lot. Bring lunch. Carpool to special Cascades mushroom location.

High Desert

- Oct. 2, Sat. **Field Trip:** 8:30 A.M. Meet at Juniper parking lot, for trip to Newberry meadow. Hel clear lodgepole saplings from 3 species of grape fern. Bring work gloves, hand saw, lunch. Dress for changing mountain weather. No hiking required.
- Oct. 26, Tues. **Meeting:** .7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas. Bring your favorite summer slides of wild flowers to share.. ..

Mid-Columbia

- Oct. 6, Wed. **Meeting:** 7:30 P.M., Mosier School. Peter Frensen, Monument Scientist, Mt. St. Helen's National Monument, will give a slide-talk on the recovery of the Mt. St. Helen's ecosystem following the 1980 eruption.

North Coast

- Oct. 26, Tues. **Meeting:** .7 P.M. in Carl Rawe Meeting Room, Tillamook P.U.D., 1115 Pacific, Tillamook. Call Jim Winslow, 842-4131, for more information.

Portland

- Oct. 12, Tues. **Meeting:** 7 P.M. at First Methodist Church, 2838 SW Jefferson St., Portland. Jack Broome, a founder of The Wetlands Conservancy, will speak on: "Why we should preserve wetlands. The role of plants."

Siskiyou

- Oct. 16, Sat. **Field Trip:** 9 A.M. Hike up Nabob Ridge in the high Siskiyou Crest, Applegate Ranger District to see Pacific Silver Fir, led by Gene Parker, conifer enthusiast. Meet at Star Ranger Station. Moderately strenuous, all day trip
- Oct. 21, Thurs. **Meeting:** 7:30 Room 171, Science Building, SOSC. Randy Frick, Fish Biologist, Siskiyou National Forest, will speak on restoring riparian areas.

South Coast

- Oct. 2, Sat. **Field Trip:** To see Brummet Fir, world's largest coast Douglas fir. Moderate half mile walk through nice stand of old growth. Meet 9 A.M., Coos Bay

Chamber of Commerce, or Fairview at 10 A.M. Bring lunch, drink, for all day.
Call Bruce Rittenhouse for information at 756-0100 (W) or 888-9328 (H).

Umpqua Valley

Oct. 14, Thurs. **Meeting:** 7 P.M. in room 311 of the Douglas County Courthouse. For information call Ted Schattenkerk at 679-6953...

Willamette Valley

Oct. 18, Mon. **Meeting:** 7 P.M. in room 225 of First United Methodist Church, 600 State St., Salem. Ed Alverson will speak on nature conservancies of Oregon. For more information call Mark Quistad, mornings, at 399-9680...

Wm. Cusick

For information call Bob Ottersberg at 963-9660. ...

Welcome to New Members Who Joined Between July 17th and September 4th 1993

Blue Mountain

Albee, Susan J.
Rouse, Ruth M.
Yanskey, Kari

Mid Columbia

Pochna, Melissa

Portland

Delcambre, Carla
Evans, Steve
Klahr, Betty
Lutz, Shirley H.
Thomas, Olivia
Topinka, Lorie
Weirather, Linda

Corvallis

Bruner, Howard
Gordon, C. Anthony
Moffatt, Bruce
Nielsen, Roger & Elizabeth & Karl
Rainsford, Diane
Wolfe, Gordon & Marti

Siskiyou

Rock, Phyllis
Widmer, Donna

Emerald

Berg, Charlie
Merrick, Kathi

South Coast

Bakke, Paul
Petersen, Dorteia
Whitehead, Tom

High Desert

Ashwill, Mel
Davidson, Bruce & Irene
McKay, Michele
Vail, Barbara

Willamette Valley

Myers, Ed

Observations on the Pollination of Silvery Phacelia

This summer the BLM Coos Bay District participated in the Apprenticeships in Science and Engineering (ASE) program put on by the Saturday Academy. This program places advanced, highly motivated high school students in the workplace with someone working in the science or engineering fields. Each student works with a mentor, completes a project, and presents the results at an end of the summer symposium in Salem.

The Coos Bay District had eight students this summer working in the fields of wildlife biology, fisheries, hydrology, archaeology and botany. Brian Kiffe from North Bend High School worked with District Botanist Bruce Rittenhouse. The project that Brian did was titled "Observations of the pollination of silvery phacelia" (*Phacelia argentea*), a coastal endemic to southern Oregon and northern California.

In May Brian excluded 25 inflorescences to prevent insect pollination, and randomly selected another 25 to be left available for the pollinators at three study sites along the southern Oregon coast (New River, Sister's Rock, Ophir Dunes). Observations were made on types of pollinators, their behavior, and the weather conditions. All potential pollinators were collected and identified by Dr. Gary Parsons, Department of Entomology, Oregon State University. When the inflorescences finished flowering, they were "harvested." Brian counted the number of flowers and calculated the per cent of fruits which produced viable seed for both excluded and non-excluded inflorescences (a very tedious task).

His results indicate that silvery phacelia does require insects for pollination, as up to 40% of the non-excluded fruits produced seeds while less than 3% of the excluded did so. The seeds produced in the excluded inflorescences may have resulted from the exerted stamens and stigmas being outside the netting, or insects such as ants crawling under the bags (which Brian did observe).

The primary pollinators appear to be leafcutter bees, *Megachilidae: Anthidium palliventre*, and bumblebees, *Bombicidae: bombus* sp. at New

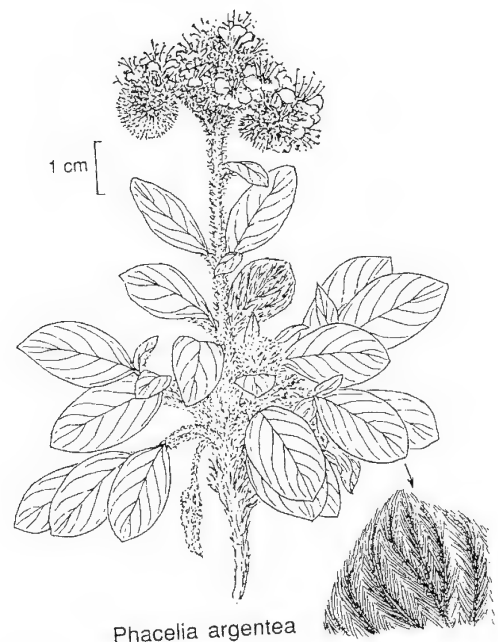
River and Ophir Dunes (both native dune communities), and at Sister's Rock (a coastal headland) bumblebees and honeybees (*Apidae: Apis mellifera*). Other potential pollinators include ants (*Formicidae: Formica* sp.), and a small beetle (species unidentified). These two insects are probably too small to be effective pollinators but may accidentally pollinate some flowers.

The leaf cutter bee is endemic to the coastal dunes ranging from southern California to British Columbia and seems to utilize the species in the *Phacelia* genus. The females are the primary pollinators, foraging for pollen to line their burrows and feed developing larvae.

The ASE program was a very positive program for both students and the BLM, and I would recommend it for other governmental agencies and businesses in the science and engineering fields.

—Bruce Rittenhouse

District Botanist, Coos Bay, BLM District



Phacelia argentea

The Jepson manual : higher plants of California

Some More New Names for Oregon Plants

In volume two of our Society's journal, Kalmiopsis (1992) I discussed some recent taxonomic changes affecting the names of various well-known Oregon plants. I mentioned there that the then-anticipated new book, The Jepson Manual, Higher Plants of California might well introduce further changes. The book has now appeared, and it is indeed an excellent (and massive) reference work which will be extremely useful to botanists in Oregon, particularly those working in the southwestern counties bordering California. Close to 200 authors wrote taxonomic treatments for the book, and although edited with a firm hand, their contributions represent diverse opinions as to how to define and delimit plant genera and species. Some generic treatments lean towards finely divided and morphologically coherent taxa (often called "splitting") and others favor more comprehensive and variable taxa (so-called "lumping"). When the concepts used by particular Jepson Manual authors differ from those used in standard referenced for the Oregon flora, new and unfamiliar plant names may result.

Taxonomic decisions that change long-established plant names should be based, one hopes, on solid scientific research -- not merely on subjective opinion. The Missouri Botanical Garden in St. Louis has for many years been as center for research on the systematics of family *Onagraceae* (evening-primrose family). Under the direction of Dr. Peter Raven, a succession of detailed studies have clarified evolutionary patterns in the family, and this has led to taxonomic changes involving "splitting" of some genera (e.g. separating *Camissonia* from *Oenothera*) and "lumping" of others (e.g. *Zauschneria* joined with *Epilobium*). The latest such change appearing in The Jepson Manual and published in the journal, Phytologia (vol. 73, pgs. 456-459, 1992), is the merging of the genus *Boisduvalia* with *Epilobium*.

There are four species of *Boisduvalia* in Oregon; the main key differences from *Epilobium* are that their seeds lack a tuft of hairs (a coma, present in *Epilobium*), their stems have a peeling epidermis, and their leaves are opposite only near the stem-base while alternate higher up. Dr. Raven's research group has discovered that these differences

must have arisen independently in ancestral species of *Epilobium*, and hence that *Boisduvalia* belongs within the latter genus, not separate from it. The old and new names for the Oregon species are as follows:

Boisduvalia densiflora becomes *Epilobium densiflorum* (Lindl.) Hoch & Raven.

Boisduvalia glabella becomes *Epilobium pygmaeum* (Speng.) Hoch & Raven.

Boisduvalia macrantha becomes *Epilobium pallidum* (Eastw.) Hoch & Raven.

Boisduvalia stricta becomes *Epilobium torreyi* (Wats.) Hoch & Raven.

A longstanding generic problem in family *Gentianaceae* has been reawakened by the treatment of *Frasera* and *Swertia* in The Jepson Manual. The genera are kept separate in Hitchcock & Cronquist's Flora of the Pacific Northwest (1973) and in Munz & Keck's A California Flora (1959). In some earlier works than these, however, the two genera were merged under the name *Swertia*, for example by the University of Hawaii botanist Harold St. John in 1941. Dr. James Pringle of the Royal Botanical Gardens, Hamilton, Ontario, wrote about the *Gentianaceae* for The Jepson Manual. In combining *Frasera* with *Swertia*, he took into account studies of the gentian family in Europe, Africa and Asia, as well as North America. He pointed out that in the Old World the two genera seem to merge morphologically (Phytologia vol. 41, pgs. 139-143, 1979). In his opinion, the differences that are said to separate *Frasera* from *Swertia* in the New World -- 4 vs. 5 petals; 1 gland per petal vs. 2 glands; 2 mm.-long style vs. stouter, 1 mm.-long style -- also show exceptions.

On the other side of the argument, Dr. Noel Holmgren of the New York Botanical Garden, kept the two genera separate in his treatment of *Gentianaceae* for The Intermountain Flora (vol. 4, pgs. 16-23, 1984). In Dr. Holmgren's opinion, evidence concerning generic relationships is incomplete, the question not having been satisfactorily settled, and "The species easily referable to *Frasera* in North America are readily distinguishable from the single North American representative of *Swertia* sensu stricto *S. perennis* L.." Both genera occur in Oregon, with *S. perennis* being limited to the Steens and Wallowa Mountains. Our most common species of *Frasera* is *F. albi-caulis*, whose several varieties occupy much of

the state east of the Cascades. *Frasera umpquaensis* is a rare species found in the southern Cascades and Siskiyou Mountains. It is probably closely related to *F. fastigiata* of northeast Oregon, Washington and Idaho. Dr. Pringle merged these species for The Jepson Manual, but in my opinion much more detailed work needs to be done in order to understand their relationship. Over all, this example in *Gentianaceae* illustrates a case where the taxonomy is not yet settled, and hence where use of the name *Frasera* is optional.

I was recently alerted to an unavoidable name change for a species of *Liliaceae* occurring in Oregon -- *Streptopus roseus* (rosy twisted-stalk). Dr. James Reveal, University of Maryland, has discovered that because of publication priority, this species must be named *Streptopus lanceolatus* (Alton) Reveal (*Phytologia* vol. 74, pgs. 185-189, 1993). The plants in Oregon which are found in the northern Coast Range and in the Cascades south to Linn County, are classified in var. *curvipes* (Vail) Reveal.

—Kenton L. Chambers
Corvallis Chapter

1992: A Year of Drought and Discovery on BLM Lands

Although this information is late, you may still be interested in some of the activities of BLM botanists from last summer. More botanical discovery and protection is in progress this year.

Vale District

Vale District botanists found that the drought conditions resulted in virtually no bloom on Owyhee clover (*Trifolium owyheense*). Owyhee clover is a Federal candidate 2 (FC2) species located east of the Owyhee reservoir. Jean Findley, Vale District Botanist, noted that, "The leaflets on the Owyhee clover were so inconspicuous that we pretty much had to abandon the inventory we had planned for the year."

It was also discovered that a population of Mulford's milk-vetch (*Astragalus mulfordiae*) had significantly declined in plant numbers. This decline was thought to be due, in part, to the continued drought conditions. Mulford's milk-vetch is

an FC2 species which grows on sandy ridges and may be palatable to numerous animals including rodents, jackrabbits and cattle. This species has been identified on only a few sites in Idaho and eastern Oregon, and it is the subject of a 1992 Conservation Agreement committing BLM and the U.S. Fish and Wildlife Service to actions to conserve the species.

Burns District

In the Burns District, new FC2 populations of bastard kentrophyta (*Astragalus tegetasrioides*) and Leiberg's clover (*Trifolium leibergii*) were found in the Three Rivers Resource Area. Previously unknown populations of Leiberg's clover were also discovered by the U.S. Forest Service in the Ochoco National Forest. Although populations of bastard kentrophyta were not thought to grow during drought conditions, the populations in the Resource Area did show signs of growth in 1992.

Prineville District

Ron Halvorson, the District's natural resource specialist, reported that several new populations of Peck's milk-vetch (*Astragalus peckii*) were found, and that he suspects new populations will continue to be identified. The BLM is the primary agency involved in the species' management.

One new population of colonial luina (*Luina serpentina*) was also found; this brings the number of known populations on BLM land to three. Most populations of colonial luina are found in the Malheur National Forest.

Salem District

In the Salem District, giant polypore fungus (*Oxyporus nobilissimus*) was found and monitored in the Snow Peak Area. This species is specific to old-growth noble fir stands. This population of polypore fungus is the largest of the five known populations worldwide. It also occurs further south, and at a higher elevation than any other known population.

A new population of fir club-moss (*Lycopodium selago*) was also found and monitored in the Santiam Resource Area. There are very few populations of fir club-moss within the Resource Area, and the existing populations are very small. Monitoring efforts will continue in order to ensure that the populations are protected.

Eugene District

In the Eugene District, botanists located seven previously unknown populations of wayside aster (*Aster vitalis*). Wayside aster is an FC2 species, endemic to the southern Willamette Valley. It is the subject of an ongoing study by the Oregon Department of Agriculture (ODA) funded jointly by ODA and BLM under Challenge Cost Share (CCS).

Five new populations of the FC2 species tall bugbane (*Cimicifuga elata*) were also identified in the Eugene District. Nancy Wogen, the Eugene District botanist noted that while, "Tall bugbane has a broader distribution throughout the Pacific Northwest than the wayside aster, it is found less frequently." Like wayside aster, this species is also being studied under a CCS by ODA and BLM.

Roseburg District

Botanists in the Roseburg District located 24 new special status plant sites. The most significant finds were of wayside aster and Kincaid's lupine (*Lupinus sulphureus*) var. (*Kincaidii*). Both these special status plant sites are located along the southernmost extension of their respective ranges.

Two Federal candidate species -- crinite mariposa-lily (*Calochortus coxii*) and Umpqua mariposa-lily (*Calochortus umpquaensis*) -- were also monitored. Increasing numbers of crinite mariposa-lily were found in the populations sampled. Monitoring of Umpqua mariposa-lily indicated decreasing numbers within meadow, open canopy and forest habitats. Over all, reproductive success was significantly lower for both species in 1992 as compared to previous years. Endowments were established for both species through the Center for Plant Conservation.

Coos Bay District

Three populations of bensonias (*Bensonias oregonae*) were found in this District. They are unique in that they are thought to be the most northerly known populations of bensonias, and they also occur at lower elevations than most populations. While these particular populations were located at 2,200 feet, bensonias are usually found higher than 3,000 feet.

Medford District

This District's "jewel find" in the summer contracting season of 1992 was an FC species that

had not been seen in over 50 years! The coral-seeded allocara, an annual species of (*Plagiobothrys*), was not extinct as had been previously feared, but just eluding botanists by not being in the right place at the right time, or by being one of the less than desirable plants to attempt keying. This was both an exciting and very important find.

The Bureau's botanists are again active with inventorying and monitoring for the 1993 field season, and are sure to turn up more new sightings, and advancements in our knowledge of rare plant ecology.

—Brenda Lincoln
Volunteer, Bureau of Land Management

METRO WASHINGTON PARK ZOO

VOLUNTEERS NEEDED

The Zoo is looking for volunteer gardeners to help with the second annual ZooBloom Festival. All talents and abilities are needed to help plant perennials and bulbs, prepare and design beds, and perform other gardening duties.

Planting will begin in November and preparations for the event will continue through the spring. Those interested should contact Paula Kurth at 220-2783. The time is flexible, but commitment to a daily or weekly schedule is desirable. Shifts are available on weekdays or weekends.

ZooBloom is a month-long floral festival that will take place next year from April 8 to May 1. The event highlights the Zoo's gardens and the environmental significance of plants, and also focuses on the relationships between plants and animals. The Festival will include major floral displays, animal topiaries, and enhancements to the Zoo's existing themed gardens.

Hart Mt. : Cow-Free in 93?

Hart Mt. is a 277,000 acre antelope refuge in eastern Oregon, east of Lakeview. A dramatic Draft Environmental Impact Statement (DEIS) just released by the U.S. Fish and Wildlife Service concludes that current cattle grazing by four permittees is not compatible with the dominant wildlife use prescribed by Executive Order 7523, establishing the refuge in 1936 (Refuges are not managed under multiple use.)

The two-volume, 504 page DEIS describes five alternative Comprehensive Management Plans that would govern the refuge for the next fifteen years. These alternatives are:

- A. Same Old Cow Poop
- B. Udder Nonsense (More Cows Than Ever)
- C. A Few Token Cows as Surgical Tools
- D. Ecosystem Management
- E. Let Refuge Go Downhill

Needless to say, the preferred alternative is D. This focuses on habitat restoration, with the goal of re-creating a pre-European landscape mosaic of plant successional communities that maximize biodiversity. Over time, active management intervention would wither away, and natural processes such as lightning fires would periodically renew the landscape.

Highlights of Alternative D include:

- no livestock grazing for fifteen years
- restoration of uplands through prescribed burns
- restoration of riparian zones by willow planting
- Research Natural Areas totaling 11,276 acres.
- closure of 161 miles of off-road vehicle tracks

The DEIS begins by exhaustively documenting core habitat problems directly attributable to a century of livestock industry practices: heavy grazing along streams (with consequent down-cutting of banks and lowered water tables and active suppression of grassland fires (with consequent late-seral succession of non-palatable woody species and diminished biodiversity.

The DEIS then describes the future desired condition of the refuge and getting there from here. Removing livestock helps greatly, but is not a total solution. An extensive program of prescribed burns is also needed.

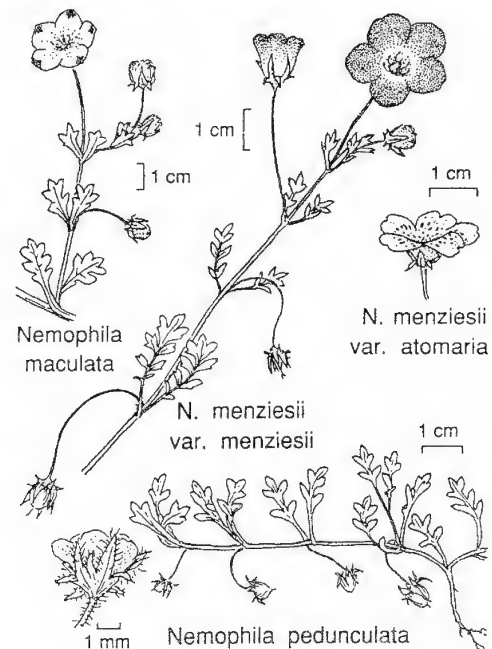
What's in all this for NPSO members? Spectacular wildflower displays, like those at Guano Creek! Better conditions for 29 R&E species, including *Eriogonum prociduum*! Northern Great Basin ecosystems as they were meant to be! No more botanizing in pastures!

Want to comment on the Draft EIS? Alternative D very much needs your support. Be sure to add a request that the Refuge hire a professional botanist to conduct rare plant surveys prior to any significant management action.

A copy of the DEIS may be obtained by calling the Refuge at 503-947-3315. **Comments are due October 12** and should be sent to:

Barry Reiswig
Manager, Hart-Sheldon Refuge
P.O. Box 111
Lakeview, OR 97630

-- Tom Pringle
Emerald Chapter



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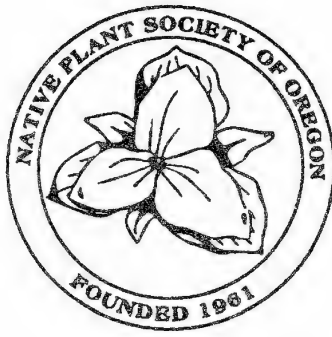
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Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 26 NUMBER 11

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State News

Sat., Jan. 15 **State Board Meeting:** 10 A.M. Salem. Call Lisa Croft (447-5270) for information.
Sat., March 12 **State Board Meeting:** 10 A.M. Mosier. Call Lisa Croft for information.
 Annual Meeting: Ashland. Details to be announced.

Chapter News

Blue Mountain

For information, call Chapter President Jerry Baker (566-3381).

Corvallis

Nov. 9, Tues. **Meeting:** 7:30 P.M., room 2087, Cordley Hall, OSU campus. Dr. Aaron Liston will speak on: "Locoweeds and Milkvetches of the World." Call Keli Kuykendall (758-8409) for information.

Emerald

Fridays **Field Trips:** Plant walks continuing this fall through Alton Baker Park Nature Sanctuary, led by Dave Wagner and/or Bruce Rittenhouse. Leave 3:30 each Friday from north end of Autzen Foot Bridge.

Nov. 20, Sat. **Field Trip:** 11 A.M. Meet at Spectra-Physics office park (Terry St. off W. 11th) for a wetland mitigation weed pull. Call Ed Alverson (687-5586) or Mark Wilson (1-503-234-2233) for information.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

- Nov. 22, Mon. **Meeting:** 7 P.M., Morse Ranch Park. Pete Sorensen, newest state legislator, will speak on the potential for native plant protection in the 1994 legislature. Directions: From downtown Eugene take Willamette St. south to Crest Dr. (right through Y for Donald, between 32nd and 33rd Aves. E.) Turn right (W) on Crest and proceed about 4 blocks. Turn right into Morse Ranch parking lot. Walk east to the white farmhouse.

High Desert

Call Cindi O'Neil at 389-3085 for information.

Mid-Columbia

- Nov. 3, Wed. **Meeting:** 7:30 P.M., Mosier School. Kate McCarthy, a long time resident of Park dale, will give a slide show on 20 years of changes at Mt. Hood Meadows, particularly the impact of development on the wet meadows.
- Dec. 1, Wed. **Meeting:** 7:30 P.M., Mosier School. Joy Belsky will give a presentation on grazing impacts in Oregon, and in Africa, where she has done extensive research on grazing impacts.

North Coast

- Nov. 30, Tues. **Meeting:** 7 P.M., in Carl Rawe Meeting Room, Tillamook P.U.D., 1115 Pacific, Tillamook. Call Jim Winslow (842-4131) for information.

Portland

- Nov. 9, Tues. **Meeting:** 7 P.M., First United Methodist Church, 2838 SW Jefferson St., Portland. Vern Nelson, Oregonian writer, and edible plant expert, talks on "Edible plants of the trail and garden."

Siskiyou

- Nov. 18, Thurs. **Meeting:** 7:30 P.M., Room 171, Science Building, SOSOC. Tom Kay, Botanist, Oregon Department of Agriculture, Plant Conservation Biology Program, will speak on "The effects of forest management on *Cimicifuga elata* (tall bugbane), a plant species in the Willamette Valley."

South Coast

For information call Bruce Rittenhouse at 888-9328

Umpqua Valley

- Nov. 4, Thurs. **Meeting:** 7 P.M., Room 310, Douglas County Courthouse. A program on the Little River Botanical Viewing Area, which is a cooperative effort among NPSO, Douglas County Museum, BLM and Umpqua National Forest. Speakers: Russ Holmes, Mildred Thiele, Mary Carlson. Neoma Neyerlin will show slides. Call Ted Schattenkerk, 679-6953, for more information.

Willamette Valley

- Nov. 15, Mon. **Meeting:** 7 P.M., room 225, First Methodist Church, 600 State St., Salem. Wilbur Bluhm will speak on a topic to be decided. Call Mark Quistad, mornings (399-9680) for information.

Wm. Cusick

Call Bob Ottersberg (963-9660) for information.

The Plant Puzzle
Sponsored by the Siskiyou Chapter

Do you recognize this native plant? The first person to send in the correct scientific name will win a prize.

Send your guess to:
Peter Zika, 4230 NW Clubhouse Pl., #1
Corvallis, OR 97330

Andrew Tessandori of Eugene had the best answer to September's puzzle, with species of *Azella*, *Najas* and *Wolffia* native to both the Amazon and Oregon.



Guidelines for Contributors to the Bulletin

NPSO *Bulletin* published monthly as a service to members and the public. All kinds of contributions welcome. **Copy due by the 10th of each month.**

CREDITS: Identify author and affiliation. If item is not original, cite source and date. Indicate if item is to be used in its entirety, or excerpted at editor's discretion.

ILLUSTRATIONS: Line drawings, prints, and high contrast black-and-white prints are usable. Some MacIntosh graphics can be used. Contact editor for our current needs, or send them along with your article.

BOTANICAL NOMENCLATURE: Follow *Flora of the Pacific Northwest*, by Hitchcock et al., or *The Jepson Manual* where appropriate. Use both scientific and common names if possible.

FORMAT: Submissions can be in any form, but at present the editor prefers hard copy. Use of a modem is not possible at this time. The editor follows the Associated Press Stylebook. Consult editor for further details.

ORIGINALS: Submissions are not returned, unless requested.

Highlights of the NPSO State Board Meeting

The NPSO Board of Directors met on Saturday, September 25, at the beautiful Environmental Center in Bend. President Lisa Croft presided. We thank the High Desert Chapter, Cindi O'Neil, president, for coffee and refreshments. It was a gorgeous, sunny day, with magnificent views of The Sisters. The vine maple was turning crimson on McKenzie Pass.

Here are some highlights of the meeting of which chapters and members should be aware:

1. Nominations. Chapters should seek nominations for State Board positions for 1994-95. Please send names and short biographies of candidates for president, vice president, secretary, treasurer and three at-large Board members to: Bruce Rittenhouse, 1170 Michigan St., Coos Bay, 97420, before December 1st, for inclusion in the January Bulletin.

2. Roadside Plant Inventory. Each chapter should send lists of known populations of rare roadside plants, along state and federal highways, to Jerry Igo, PO Box 603, Mosier, 97040. The Oregon Department of Transportation (ODOT) is beginning a state-wide survey of rare plant populations which will be flagged for protection.

3. Kalmiopsis. Articles are being sought for the 1994 issue of Kalmiopsis. Please send submissions to Frank Lang, Editor, 535 Taylor, Ashland, 97520.

4. NPSO Grazing Policy. The Board amended and then voted to accept the final version of the NPSO Grazing Policy which appears elsewhere in this Bulletin. The Board thanked Stu Garrett for his hard work on the policy statement.

5. Environmental Federation of Oregon. NPSO earns about \$6,000 a year by taking part in the Environmental Federation of Oregon (EFO) Fall Fund Drive, which runs concurrently with the United Way campaign. NPSO must have a person to coordinate our involvement in this campaign, in order to receive our funds. If you live in the Portland area and can serve in this capacity, please contact NPSO President Lisa Croft (503-447-5270) at once.

6. Challenge Cost-Share Grants. Chapters: please inventory the resources (money, materials, people) you might have available, if you are offered a cost-share challenge grant by a federal agency. This subject will be on the agenda of the January 15 State Board meeting in Salem.

7. Exotic Plant Pest Council (EPPC). This new council is being formed in the Pacific Northwest to coordinate, inventory, monitor and control weedy plant invasions. A meeting will be held in Pendleton on December 10th and 11th.. Please contact Jerry Igo, at the address (2) above, if interested.

8. Introduction of Non-Native Plants. Veva Stansell, Margie Willis and others have urged NPSO to begin an educational program to discourage the introduction of non-native plant species in natural areas. This topic will be on the agenda of the January 15th Board meeting.

9. Siskiyou Rare Wildflower Poster. The Board agreed to contribute \$200 toward a rare flower poster being produced by the Siskiyou National Forest.

Rhoda Love
Vice President, NPSO
Member, Emerald Chapter

Flora of North America

The first two volumes of the projected 14 volume Flora of North America are due out momentarily from Oxford University Press, priced at \$75.00 a volume. Eleven years in the making and costing at present a million dollars a year, this is a monumental collaboration of 30 institutions and hundreds of botanists. Volume one contains a series of essays covering geology, climate, research, classification and other subjects. Volume two will cover the ferns and gymnosperms. Rhoda Love and Peter Zika will write reviews for a future issue of the Bulletin.

REVELATIONS FROM THE ROAD: DISCOVERING OREGON'S RARE PLANTS

During this past summer, NPSO helped sponsor four internships in conservation biology (over 40 individuals applied or expressed interest this year!). The interns assisted the Oregon Department of Agriculture in summer research on rare and endangered species. Two internships were summer-long in duration, and were filled by Steve Gisler (Sublimity) and Melissa Peterson (Eugene). The other two lasted two weeks each, and were completed by Mary Garrard (Portland; sponsored specifically by the Portland Chapter of NPSO) and Jill Van Winkle (Portland). As their final assignment, interns are required to write a narrative illustrating their work experience. The following article by Steve Gisler is the first in the series.

---Bob Meinke

**"...Two roads diverged in a wood, and I --
I took the one less traveled by,
And that has made all the difference."**

As a summer intern for the Native Plant Society of Oregon working with Oregon's Plant Conservation Biology Program, these lines from Robert Frost's poem, "The Road Not Taken," took on a new dimension of meaning for me, as the road less traveled by led to some of Oregon's most interesting and beautiful rare plants, located everywhere from the lush forests of our own back yard to some of the most remote and desolate regions of the state. The road began with the arrival of June, the beginning of the summer field season, at Oregon State University in Corvallis, which served as headquarters for the conservation biology crew. There was an air of apprehension and excitement as we loaded up the camping gear into the maroon station wagon and headed to Klamath Falls for my first assignment to seek out and find *Mimulus pygmaeus* (the dwarf monkeyflower) and *Mimulus tricolor* (the tricolored monkeyflower), two rare species reputed to be in the area.

Upon arrival, the first order of business was to visit a known location of the dwarf monkeyflower in order to become familiar with the plant's morphology and habitat. I realized immediately that the dwarf monkeyflower is aptly named;

even a large plant grows only about an inch across and attains a height of a mere one-half inch. Having been given the scent of the elusive monkeyflower, we were set loose, like a pack of bloodhounds, to find it. And indeed, after finding populations of the monkeyflower in several locations (and not finding it in several others), I and other members of the crew became very adept at "sniffing out" the tiny plant. Oftentimes I could actually feel what seemed to be monkeyflower "vibes" when the plants were near, which made finding them significantly easier. After some consideration, however, I realized that these "vibes" were actually my subconscious recognition of the many subtle environmental factors making up the plant's habitat. The dwarf monkeyflower grows at elevations of 4,000-5,000 ft., near vernal pools and moist flats. It often occupied the very narrow fringe between these wet areas of rushes and sedges and the nearby dry areas of sagebrush.

Once populations were found, we made collections of associated species, estimated population size, and recorded exact locations of populations on a range map to illustrate the extent of the species in Oregon (until very recently this species was thought to be endemic to a single site in California). In addition, we paid attention to factors such as grazing and trampling by cattle which may pose threats to plant populations. The same protocol was used for the tricolored monkeyflower, which seemed, in the areas we surveyed, to grow in habitat similar to that of the dwarf monkeyflower. Although this particular field trip was cut short due to sub-freezing temperatures, furious lightning storms, gale force winds, hail, and even snow (ah, summertime in Oregon!); we returned to continue work a week later when conditions were less hostile. After completing our surveying for the monkeyflowers, we endeavored to understand the pollination biology of the dwarf monkeyflower by squatting down amongst the plants on a sunny day and searching for insect pollinators. After hours of waiting and watching I saw a plethora of beautiful and fascinating insects, and although many of them were visiting other nearby plants, none of them visited the lonely monkeyflower. I found this intriguing, for although the plant could be a

self-pollinator, it's curious that its upturned, brightly colored flowers, with red spots arranged like nectar guides, would not attract insect pollinators.

From Klamath Falls the road less traveled by veered North to the breathtaking Tygh 'Valley, near Maupin, home of *Astragalus tyghensis*, the Tygh Valley milk-vetch. Here, I counted infructescences and fruits to get an idea of average seed production, and I pulled fruits apart to determine the extent of seed parasitism (in other words, I counted squirmy white grubs). This milkvetch has a very restricted range and has been pushed back by agriculture and ranching to just a few small areas. Another plant that has been driven back by the doings of mankind is *Horkelia congesta*, which frequents those remnants of native wet prairies in the Willamette Valley that haven't been paved over or converted to grass fields. Here, I assisted in setting up transects and test plots for current and long-range population monitoring.

Heading East once again, the road led next to the Aldrich Mountains near John Day, where I helped in establishing plots for population studies of *Luina serpentina*. Within these plots, individual plants were mapped and measured, and flowering heads were collected, which we later pulled apart to determine seed production and seed predation (the little white grubs again). *Luina serpentina* grows on steep talus slopes, which are often surrounded by expanses of cheat grass. Cheat grass, I learned, utilizes boots and socks as vectors for seed dispersal.

Two days later I found myself near Baker City, where the crew and I worked on *Haplopappus radiatus*, a plant with very spiny bracts and an unfortunate propensity to grow on the hottest and driest slopes in the state. On these sweltering slopes we measured and mapped plants as part of ongoing population studies. Both pre-existing plants and new seedlings were identified to determine seedling recruitment and establishment. While in the area, we traveled to nearby Unity, where we set up population monitoring plots for *Lupinus cusickii*, a rare lupine that competes for limited habitat with four-wheelers, dirt bikes and dune buggies. Unfortunately, it also shares its habitat with profuse populations of ticks!)

Back closer to home, work then began on *Cimicifuga elata*, the tall bugbane. From the Umpqua River to the Columbia River, we clung to ferns

and fearlessly trudged through dense groves of devil's club, searching for new populations of the bugbane and carrying out population monitoring on known populations. Our searches were done in no haphazard manner; with the cooperation of the U.S. Forest Service and the Bureau of Land Management, we combined recommendations from area botanists, information from maps and timber types, and our knowledge of habitat requirements to lay out a concise and organized plan of attack. The plant is found on moist North-facing slopes, usually with a fairly open canopy of mixed deciduous and coniferous tree species that let in filtered light to the forest floor. Sword-fern, maidenhair fern, thimbleberry, baneberry and vanilla leaf are common associated species. After searching for this plant every waking hour for weeks, a search image of the tall bugbane has become ingrained in my head. The plant frequently invades my dreams, and I still involuntarily slam on my brakes whenever I see likely habitat while driving down the road.

After a summer of travel, the road I was on found its end near North Bend on the Oregon coast, where I helped search the beaches and fore-dunes for *Abronia umbellata*, the pink sand verbena. Although we received no gratification by finding the rare plant, we were rewarded by finding the less rare *Abronia latifolia*, or yellow sand verbena, which may be indicative of habitat suitable for transplanting of pink sand verbena seedlings grown in the greenhouse.

This summer, taking the road less traveled by proved very rewarding, for it was also the road to some of Oregon's most beautiful and rare plants and places -- things few people have had the opportunity to see and experience. My sincere thanks to the Native Plant Society of Oregon for giving me the means and the opportunity to travel the road, and my deepest gratitude to everyone on the conservation biology crew, who traveled with me as coworkers, friends and guides.

-- Steven Gisler

FINAL NPSO GRAZING POLICY

The NPSO acknowledges the importance of the issue of domestic livestock grazing on lands and waters of our state. We see it as involving not only the biological diversity of our state but also the lives of many of its people. We recognize that many lands in Oregon have been adversely impacted by livestock grazing. NPSO's goal is to prevent any further damage to natural resources and to encourage the restoration of lands that have been damaged. We wish to emphasize science-based management for healthy native ecosystems, restoration of degraded lands, and cooperative approaches among agencies, landowners, permittees and interest groups.

Therefore, on publicly owned land:

1. NPSO advocates the full protection of riparian and wetland systems from degradation by domestic livestock. We advocate protection of the vegetation, natural water supply, water quality and soil in these areas.
2. NPSO advocates elimination of grazing on public grasslands with remaining native bunchgrass communities that are judged to be in excellent ecologic condition.
3. NPSO advocates the elimination of grazing from specially designated lands including Research Natural Areas, wilderness areas, relict areas, wild and scenic river corridors, national parks, wildlife refuges, national monuments, Areas of Critical Environmental Concern, Wilderness Study Areas and other special natural areas.
4. NPSO particularly advocates the protection of rare components of biologic communities that are threatened with extinction.
5. NPSO acknowledges the threat to native plant communities from the invasion of alien, non-native plant species, and we recommend appropriate management practices that reverse this trend.
6. NPSO opposes revegetation practices in which native plant communities are replaced with exotic plants, such as crested wheatgrass plantings.

7. NPSO acknowledges the impacts that management of surrounding private lands have on public lands and resources. These impacts include effects on streamflows, integrity of riparian areas, invasion by alien plants and animals, and desired populations of native animals. NPSO advocates educational programs, regulations, and tax incentives which encourage good private land management.

8. In support of NPSO's educational and scientific mission, we strongly urge comprehensive monitoring studies comparing the ecology of grazed and ungrazed ecosystems. These can become the basis for rational management decisions.

9. NPSO encourages efforts to monitor and upgrade the condition of public lands and supports the goals of having all lands in excellent ecological condition. We support use of fire and native plant restoration as management tools, particularly where control of woody species is important.

10. We recognize that allotment stocking rates during years of average rainfall may have disastrous effects during drought years and therefore strongly urge land managers to develop grazing plans based on dry year forage production.

11. NPSO supports cooperative ventures and partnerships where private and public land can be managed using principles of landscape ecology and ecosystem management. We see discussion and cooperation as productive approaches to land management challenges.

12. NPSO recognizes the damage that feral horses and burros have caused and asks for their control or elimination.

Rare, Threatened and Endangered Plants and Animals of Oregon

This 80 page report compiled by the Oregon Natural Heritage Program and other organizations has been updated and expanded as of August 1993. Copies may be obtained for \$5 from ONHP, 1205 NW 25th, Portland, OR 97210. Add \$2.50 for postage and handling, if mailed.

NPSO and the Challenge Cost Share Program

Recently there has been an increase in requests to NPSO to be a partner in challenge cost share (CCS) projects with federal, state and county agencies. CCS is a unique venture where the private sector and government agencies share in both the cost and management of improvement projects on agency land. CCS is a process where projects can be done on the ground to benefit native plants and their habitat. Government funding for projects is contingent upon receipt of matching monies, labor, and equipment or sharing technical skills to get the job done on the ground.

To facilitate the increasing number of requests, the Board has decided to establish a set of guidelines for the submission and funding of projects. Thus we can fairly evaluate all proposals at the same time and give equal consideration to all projects. These guidelines apply only to those projects submitted to the state board for funding. For requests for funding from chapters, partners need to contact the chapter president for local guidelines.

NPSO STATE BOARD GUIDELINES FOR CCS PROJECT PROPOSALS

1. Specify clearly whether or not you will be pursuing funding from a local chapter. Funds are limited and to fund as many projects as possible, we need to know other possible partners.
2. Provide information on the project title, description, partners and benefiting species.
3. State clearly who the contact persons are, their agency affiliations, and how to get hold of them.
4. Detail what you are requesting from NPSO -- amount of money, time, equipment, etc. State what we are providing and you are providing. Give as much information as possible here. For example, if requesting funding for a poster, how many will be printed? Who will pay for what?

5. SUBMIT PROPOSALS TO THE STATE PRESIDENT BY MAY 1 FOR PROJECTS TO BE FUNDED THE FOLLOWING YEAR. For example, projects submitted on May 1, 1994, will not be implemented until 1995

Projects will be discussed by the Board at the annual meeting. Participants will be notified in writing after the meeting, and results will be published in the Bulletin.

Lisa Croft
NPSO President

NPSO Items for Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Cost to individuals is \$12 each plus \$3 for shipping. Chapter treasurers may contact Stu for wholesale prices.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (at above), for \$1 each. Minimum order is 5.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one drawn by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes, and sold through NPSO chapters. For information contact Lisa Croft, 699 W. 2nd, Prineville, OR 97704 (503-447-5270).

NPSO T-Shirts come in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W. 10th St. #1, Eugene, OR 97402 (503-485-1868).

NPSO Membership Directory lists names, addresses and phone numbers of members (April, 1993). Available from Jan Dobak, 2584 Savier St., Portland, OR 97210-2412. \$2 each.

The Exotic Pest Plant Council Organizes in the Pacific Northwest

On July 24, thirty-one individuals (at least from NPSO) from Oregon, Washington and Idaho met in Corvallis to determine if there was interest in forming a chapter of the Exotic Pest Plant Council (EPPC) in the Pacific Northwest. Following an introduction of what the EPPC has done in Florida and California, the attendees voted with no dissent to organize an EPPC chapter.

It was agreed that the chapter should include the states of Oregon, Washington and Idaho, with interested individuals from neighboring states and Canadian provinces welcome to participate. This initial meeting was organized by Dennis Isaacson, Oregon Department of Agriculture and Lou Whiteaker, Bureau of Land Management, Klamath Falls Resource Area. Lou was one of the biologists participating in the Florida EPPC.

The group adopted three themes which could be adopted by this new Pacific Northwest chapter. These were: 1) To work cooperatively with diverse groups to prevent the introduction and establishment of non-native plant species. 2) To understand, predict and manage exotic pest plant invasions. 3) To educate the general public and the legislatures on the environmental and economic impacts of exotic vegetation.

The EPPC was formed in Florida in 1985 by a group of biologists who were alarmed by the harmful exotic vegetation (specifically *Melaleuca*), on Florida's natural systems. The primary purposes of the EPPC are to facilitate communication among agencies, scientists, private industry and concerned citizens, to educate the public on the impacts of exotic pest plant invasions, to provide advice on funding and research, and the management and control of exotic pest plants. Since its inception, the EPPC in Florida has achieved some significant successes including:

- *promoted statewide legislation to prohibit the transportation, sale or use of four exotic pest plant species.

- *completed a campaign to have *Melaleuca* declared a federal noxious weed by the USDA, thereby freeing money for research and control efforts.

- *succeeded in raising \$600,000 from ten separate agencies for a USDA research program in Australia to find a biological control for *Melaleuca*.

- *assisted various land management agencies in obtaining several million dollars for exotic species control programs in natural areas.

- *developed a cooperative, interagency plan to establish a buffer zone for Everglades National Park against the invasion of exotic pest plants. Nearly ninety one million dollars has been spent or committed for this effort.

- *organized the 1988 symposium on Exotic Pest Plants in Miami that brought together scientists and land managers from across the country and from overseas.

- *plus many more too numerous to mention here.

In October of 1992 the California Exotic Pest Plant Symposium was held in Morro Bay to establish the EPPC chapter in California. Papers were presented on the background and accomplishments of the EPPC in Florida, and on exotic plant species problems in California.

A formal organizational meeting is scheduled for December 10-11 in Pendleton, Oregon following the Interagency Noxious Weed Symposium. The meeting will be held at the Umatilla National Forest Headquarters Office, and the fee is \$10. If you are interested in attending the EPPC meeting or joining the EPPC, call Lou Whiteaker (503-883-6916), George Heywood (503-754-4014) or Dennis Isaacson (503-378-4987). NPSO members are encouraged to join.

Bruce Rittenhouse
Lou Whiteaker

Leslie Gulch Management Plan

NPSO members are asked to write letters to:

Ralph Heft, Vale BLM, 100 Oregon St., Vale Oregon 97918 supporting Alternative A of the Leslie Gulch Area of Critical Environmental Concern Management Plan. Alternative A eliminates grazing, restricts mining and restricts all terrain vehicles from this spectacular canyon which has five plant species that are candidates for listing under the Endangered Species Act. Alternatives B and C continue these destructive activities.

-- Stu Garrett

President's Column

The final NPSO grazing policy appears elsewhere in this Bulletin. I sincerely appreciate all the time and effort members put into the drafting of this document. I am particularly grateful to those of you who took the time to make comments on the draft. I hope you see some of your ideas incorporated into the final policy. I assure you all comments received careful consideration by the Board.

The purpose of this document is to convey the Society's overall view on grazing. As members, it is my hope that you use this document as a tool in your letter writing and involvement in the public participation process. I suggest you add your comments to it as a cover letter when distributing it to policy makers, land managers and private land owners. You may feel the language is too strong, or not strong enough; therefore take the opportunity to add your own opinions, in addition to the policy.

Developing this policy was an exercise in consensus, and an important undertaking for the Society as we begin to develop policy statements. It is my hope that we continue this process of creating policy statements as a way of focusing our concerns. Please share your ideas with me for the next statement you would like to see the Society develop

-- Lisa Croft
NPSO President

Nominations for State Officers

NPSO members who are interested in running for a state office in 1994, now is the time. We need volunteers for the offices of president, vice-president, secretary and treasurer. These are all one year terms. There are also three at-large members of the board of directors which are two-year terms. The officers meet four times a year (on Saturdays) at various locations in the state. If you are interested in becoming a state officer, or want to know how much work it entails, contact your chapter president or the Nominations Committee (Bruce Rittenhouse, 888-9328 and Nancy Wogen, 466-5195).

EFO??? Not UFO

EFO: What is it??? The Environmental Federation of Oregon is an umbrella organization that provides a convenient way to support Oregon's environmental organizations through employee workplace payroll deduction charitable contributions. It is a coalition of environmental groups and it provides a large amount of money to the NPSO! Last year alone we received almost \$7,000 from EFO membership. What does it cost NPSO? As a member of EFO we must provide volunteer hours to EFO. These hours of service can be met by leading field trips for places where EFO is part of the workplace combined giving campaign, or they can be used to help at EFO functions or at the EFO office. Even coordinating EFO hours for the NPSO counts as service hours. BUT we are in great danger of losing this source of income unless a NPSO-EFO coordinator can be found.

WANTED!

A dedicated, interested, motivated individual to serve as the EFO-NPSO Coordinator, preferably living in the Portland area.

REWARD: \$100.00 a year honorarium.

Description of Duties: Keep track of volunteer hours. Be an EFO liaison. Recruit volunteer service, occasionally helping at the EFO office. The time commitment will average 3 hours a week.

Does this describe you? If so, please contact:

Lisa Croft
NPSO President
503-447-5270

STATE OFFICERS

DIRECTORS (to 6/95) Jenny Dimling, Veva Stansell, Nancy Wogen
 DIRECTORS (to 6/94) Jerry Igo, Margie Willis, Peter Zika
 PRESIDENT. Lisa Croft. 699 W 2nd, Prineville 97704; 447-5270
 IMMEDIATE PAST PRESIDENT . . . Stephanie Schulz. 652 W 10th St #1, Eugene 97402; 485-1868
 VICE PRESIDENT Rhoda Love. 393 Ful Vue Dr, Eugene 97405-2706; 345-6241
 SECRETARY Bruce Rittenhouse. 1170 Michigan, Coos Bay 97420; w:756-0100; h:888-9328
 TREASURER Kari Yanskey. PO Box 64, Ukiah 97880; 427-3063

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) . . . Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Duncan Thomas. 2060 NW Dogwood Dr, Corvallis 97330-1102; _
 EMERALD (Eugene) Bruce Newhouse. PO Box 902, Eugene 97440; 343-2364
 HIGH DESERT (Bend) Cindi O'Neil. 22100 Sweetgrass Dr, Bend 97701; 389-3085
 MID-COLUMBIA Keith Chamberlain. Box 271, Mosier 97040; 478-3314
 NORTH COAST Jim Winslow. 8750 Valley View Dr, Tillamook 97141; 842-2246
 PORTLAND Laura & Steve Gasaway. 39586 SE Trubel Rd, Sandy 97055-9625; 668-5076
 SISKIYOU David Kennedy. 8394 Wagner Creek Rd, Talent 97540; 535-6383
 UMPQUA VALLEY (Roseburg) . . . Ted Schattenkerk. 3805 Hwy 42, Winston 97496-9546; 679-6953
 WILLAMETTE VALLEY (Salem) . . . Jim Crane. 3837 Hart Dr N, Keizer 97303-5945; 393-0798
 WM. CUSICK (La Grande) Bob Ottersburg. PO Box 885, La Grande 97850; 963-9660

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED. Stephanie Schulz. 652 W 10th St #1, Eugene 97402; 485-1868
 CONSERVATION, EAST SIDE Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE Kate Dwire. 33787 SE White Oak Rd, Corvallis 97333; w:754-4666; h:757-7115
 LEGISLATIVE Esther McEvoy. 3290 Willamette, Corvallis 97333; 754-0893
 MEMBERSHIP Jan Dobak. 2584 NW Xavier St, Portland 97210-2412; 248-901; 389-6981
 Budgets and Grants. Dan Luoma. 2912 NW Arthur Ave., Corvallis 97330; 752-8860

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BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, #28 Portland 97209; 226-6371
 KALMIOPSIS EDITOR Frank Lang. 535 Taylor St, Ashland 97520; w:552-6341; h:482-5235

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Address_____

City_____

State_____ ZIP+4_____ - _____

Phone_____

Chapter (if known)_____

Is this a change of address?

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Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

Full membership is for calendar year, January to December.

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Leighton Ho Memorial Field Botany Award Fund. . . \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland OR 97210-2412

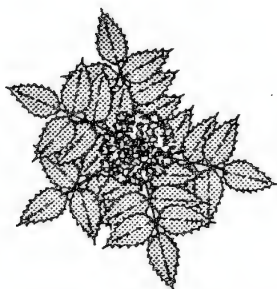
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NATIVE PLANT SOCIETY OF OREGON
 General Business Address: P. O. Box 902, Eugene, OR 97440
 or correspond directly with the Officers and Committee Chairs listed on the inside back page.
 Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

Send change of address notices
 and membership requests to:
 Native Plant Society of Oregon
 Jan Dobak, Membership Chair
 2584 NW Savier St.
 Portland, OR 97210-2412

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Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 26

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It's Renewal Time

The NPSO membership year is January to December. Now is the time to renew. First check your address label on the *Bulletin*. You might already be paid up for 1994. If there is a 93 on the top line, you need to renew now.

A remittance envelope is in this issue. Or use the membership form on the inside back page.

NPSO brings you field trips, programs, classes, the monthly *Bulletin* and the annual *Kalmiopsis*.

This is also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Fund is used for summer research projects in western Oregon, and is a matching grant in cooperation with The Nature Conservancy. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Jean Davis Fund awards scholarships to botany students in Oregon. Contributions can also be made to the NPSO General Fund.

Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

State News

Sat., Jan. 15
Sat., March 12

State Board Meeting: 10 A.M. Salem. Call Lisa Croft (447-5270) for information.
State Board Meeting: 10 A.M. Mosier. Call Lisa Croft for information.
Annual Meeting: Ashland. Details to be announced.

Chapter News

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Blue Mountain

For information, call Chapter President Jerry Baker (566-3381).

Corvallis

Dec.14, Tues. **Meeting:** Dessert and slide potluck. Bring 12 favorite slides and/or dessert to share to 4550 Sw Nash, Corvallis. Call Keli Kuykendall, 758-8409, for information.

New Officers: Keli Kuykendall, president; Richard Brainerd, vice president; Loren Russell, secretary; Dan Luoma, treasurer.

Emerald

Dec.13, Mon. **Meeting:** 7 P.M. Annual slide show/potluck. Bring favorite slides of the year and potluck dish to Anna Mokler's, 32037/32043 Fox Hollow Rd. From intersection of Fox Hollow and W. Amazon Pkwy. 2.9 mi. south on Fox Hollow to blue mailbox. Parking for 5 or 6 cars. Call Anna, 485-0891, for more information.

High Desert

Jan. 25, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas. Speaker is Ranotta McNair, Forest Service Nursery Manager, who will speak on "Species Diversity at the Bend Pine Nursery." Call Cindi O'Neil, 389-3085, for more information. (There is no December meeting.)

Mid-Columbia

Dec. 1, Wed. **Meeting:** 7:30 P.M., Mosier School. Joy Belsky will give a program on grazing impacts in Oregon and Africa, where she has done extensive research.

North Coast

Dec. 4, Sat. **Field Trip:** Winter botany field trip. Location contingent on weather. Meet 10 A.M., PUD parking lot, 1115 Pacific, Tillamook. Call Jim Winslow, 842-4131.

Dec. 11, Sat. **Meeting:** Potluck/meeting (replaces regular meeting of Tues. 12/28). Noon at Evelyn Brown's, 17005 Trask River Rd. Bring dish to share. For directions or car pooling, call Evelyn (842-2746) or Jim Winslow (842-4131).

Portland

Dec.14, Tues. **Meeting:** 7 P.M. Members show and tell night. Bring up to 12 slides of your finest or most unusual plants and tell about your adventures. Carousel, projector and screen supplied. Come early for snacks and visiting. If showing slides, please call ahead. (246-6572). First United Methodist Church, 1838 Jefferson St., Portland....

Siskiyou

Dec. 16,Thurs. **Meeting:** 7:30 P.M. Barbara Mumblo will give slide show: "Wildflowers and Views of Israel." Meet in Room 171, Science Building, SOSC, Ashland.

South Coast

For information on formation of South Coast Chapter, call Bruce Rittenhouse (888-9328).

Umpqua Valley

Dec.9,Thurs. **Meeting and Christmas Party:** 6:30 P.M. at Richard Sommer's (Hillcrest Vineyard) 240 Vineyard Ln. Please bring your place setting and finger foods. Bring 10 slides for viewing if you wish..Call Ted Schattenkerk (679-6953) for information...

Willamette Valley

Meeting: None in December.

Wm. Cusick

Dec.15,Wed. **Meeting:** 7 P.M. Baker ESD Office, 2100 Main St., Baker City, OR. Charley Johnson will present a program on the "Monkey puzzle tree forest of the southern Andes in Chile."

Welcome to New Members Who Joined Between September 5th and November 1st

Blue Mountain

Gritski, Ben
Kronner, Karen
Mitchell, Jean Ann

Corvallis

Ingersoll, Cheryl
Miller, Don
Trask, Melinda
Wehmeyer, Sandra

Emerald

Cantrell, Isabella
Manning, Judith
Millstein, Henry
Newman, Paul
Oldham, Keith

High Desert

Rule, Gary
Wayne, Rod and Barbara

Mid-Columbia

Buckhout, Stephen
Yang, Stella

Portland

Beyman, Phil
Brooks, Dan
Fong, April Ann
Hyslop, Bob
Lothrop, Claudia
Meserve, Leslie M.
Meyers, Leslie

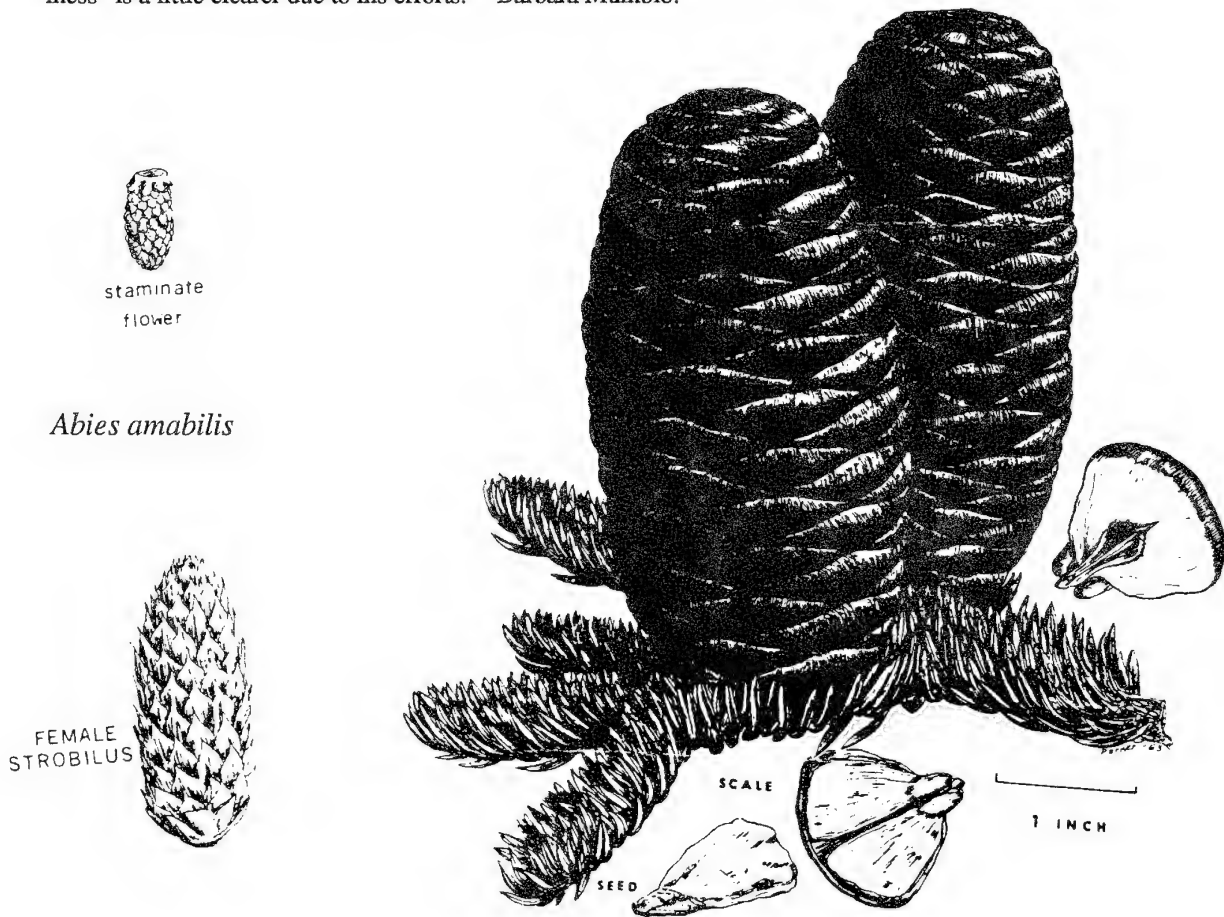
Umpqua Valley

Puffer, Robert
Wilson, John D.
Wolf, Lisa

REMEMBERING GENE PARKER

Southwest Oregon lost an enthusiastic conifer specialist in October when Gene Parker died of a heart attack. Gene had led a field trip for the Siskiyou Chapter to his beloved Pacific Silver Fir site near Cook and Green Pass just the week before he died. Gene discovered this disjunct population in the 1960's and greatly enjoyed showing people this site high in the mountains.

Gene truly loved the conifers and wrote several articles about his field studies. One of the more recent articles, "Those Amazing Siskiyou Firs and a New Discovery" in *The Four Seasons*, 1/25/88, was about his discovery of *Abies amabilis* in the Siskiyou Mountains. The "botanical tramp," Oliver Matthews, had encouraged Gene to look in this area for the (Sub)alpine fir which was rumored to be above the Blue Ledge Mine. Just before his death, Gene had completed another article which he was ready to send for publication. Gene had so much enthusiasm for the conifers, it's wonderful he was able to go to one of his favorite spots and share some of his knowledge before leaving us. The Siskiyou firs "mixed-up mess" is a little clearer due to his efforts. -- Barbara Mumblo.



Drawing by Gene Parker, reprinted, by permission, from *The Four Seasons; journal of the Regional Park Botanic Garden*, Berkeley, California. The next issue of that publication will be in memory of Gene Parker.

President's Column

In September, I had the opportunity to be the program speaker at the Portland Chapter meeting. My theme was "Issues, concerns and activities at the State Board level." My part of the presentation was brief as I outlined current issues and discussed my ideas for the future direction of NPSO. My primary intent for that evening was to hear from chapter members on what their concerns were, on where they felt we should be going, and on what issues they felt we should become involved in. It was a chance for me to hear from the membership in person. It provided a bridge of communication from the Board to the chapter level, with an untraditional method. I greatly appreciated the opportunity the Portland Chapter provided and I hope other chapters welcome either myself or another Board member to their evening meetings soon.

We are still looking for an EFO coordinator. This is an important source of income for NPSO and we may lose it if we don't fill this position soon. Please call me if you are interested.

Several ideas have been presented for the next policy statement. These include: mining, ancient forests and the use of native species for restoration and rehabilitation. Please share your ideas with any Board member.

You are welcome at Board meetings. The next meeting will be in Salem in January. I am a strong believer in "people support that which they help to create." Therefore I look forward to a wide range of discussion and participation in developing the next policy statement.

As the solstice approaches, it is always a reminder to me of the return of another growing season, and of our Society's mission to the conservation and enjoyment of our native flora. Wishing you a joyous and peaceful solstice and holiday season.

Lisa Croft
NPSO President

NPSO Items For Sale

Oregon's Rare Wildflowers Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to Chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (see above). \$1 each; minimum order is 5.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one drawn by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Notecards are sold through NPSO Chapters. For more information contact Lisa Croft, 699 W. 2nd, Prineville, OR 97704 (503-447-5270).

NPSO T-Shirts are available in various colors and designs. They are sold through NPSO Chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W. 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each.

NPSO Membership Directory lists names, addresses and phone numbers of NPSO members (April, 1993). Available from Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. \$2 each.

HISTORY OF THE JEAN DAVIS AWARD

The Jean Davis Memorial Scholarship fund was established in August 1979 in memory of Jean Davis, who passed away while on a field trip in the Cascades with several other members of the Willamette Valley Chapter of NPSO.

Jean was a charter member of the Willamette Valley Chapter, and her husband felt this was the way he wanted to honor her. A request for donations to the fund in lieu of flowers was made and several sizeable donations were received. Mr. Davis then increased the fund to \$10,000 and a committee was formed to set up guidelines for the recipients of the scholarships.

After deliberations it was decided that the recipient must be one that will be attending an Oregon college, and plans to study plant systematics or plant ecology. The recipient is to have completed at least two years of satisfactory college work by July 1 of the year of application and be a full time student. The award is in the amount of \$1000 and will be paid directly to the school of choice, to be used toward tuition within the following academic year.

Applications are available from Mary Falconer, Chairman, Scholarship Committee, 1920 Engel Ave. NW, Salem, OR 97304. They must be completed and sent to this address no later than April 1 of the year of application. The award will be made by May 1 and is usually announced at the NPSO Annual Meeting.

Since the establishment of the Fund there have been donations in memory of other NPSO members. Any donations will be gladly accepted and should the Fund grow to the necessary size additional scholarships could be awarded.

From these funds NPSO will award a scholarship to a worthy student in an Oregon college, with his or her major study in plant systematics or plant ecology. The scholarship is in the amount of \$1000, to be used toward the student's tuition within the following academic year. Deadline of applications is April 1. The award will be made by May 1.

Donations to the scholarship fund are tax deductible and are welcome at any time. All interest earned from the donations is apportioned to as many scholarships as possible in the spring of

each year, at \$1000 each. All communications regarding this fund should be addressed to: Mary Falconer (address above).

RULES FOR SCHOLARSHIP AWARDS

- 1) Scholarships are available to students in Oregon colleges, planning their major study in plant systematics or ecology.
- 2) Scholarships are awarded in the amount of \$1000 to worthy students who will complete at least two years of satisfactory college work by July 1 of the year of receipt of application and are full time students. Graduate students may be eligible if they meet all qualifications except that of full time student.
- 3) Awards are made in the following manner:
 - a) A certificate is presented to the recipient.
 - b) A check in the amount of the award is submitted to the school of choice, as set forth in rule 1, to be used toward tuition within the following academic year.
- 4) If an award recipient fails to enroll, changes his or her major, or leaves the school before completing the period for which the award was granted, the full amount or unused part of the money shall be returned to the Jean Davis Memorial Scholarship Fund.
- 5) Applicants are required to submit:
 - a) In their own handwriting, a statement of academic and career intent.
 - b) Two letters of reference from persons able to judge the student's ability to successfully complete study in the area of plant systematics or plant ecology.
- 6) All applications together with items listed in rule 5 must be received by the Scholarship Committee Chair no later than April 1. The award will be made by May 1.
7. Scholarships cannot be granted to Scholarship Committee members or their relatives.

Mary Falconer

(Reprinted from NPSO Bulletin for Dec. 1990)

Haplopappus radiatus and *Cimicifuga elata*

During this past summer, NPSO helped sponsor four internships in conservation biology (over 40 individuals applied or expressed interest this year!). The interns assisted the Oregon Department of Agriculture in summer research on rare and endangered species. Two internships were summer-long in duration, and were filled by Steve Gisler (Sublimity) and Melissa Peterson (Eugene). The other two lasted two weeks each, and were completed by Mary Garrard (Portland; sponsored specifically by the Portland Chapter of the NPSO) and by Jill Van Winkle (Portland). As their final assignment, interns are required to write a narrative illustrating their work experience. The following article by Mary Garrard is the second in this series.

During the spring and summer of 1993 I had the opportunity to study several of Oregon's rare plant species as a Native Plant Society intern volunteering with the Oregon Department of Agriculture's Plant Conservation Biology Program (ODA). Although the two week internship seemed far too short, I learned a lot about field botany and the frustrations and rewards that come with it.

The first week of my internship took place in eastern Oregon in early May studying *Haplopappus radiatus* (Nutt.). Cronquist, the Snake River goldenweed, a member of the family Compositae. This plant is a narrow endemic whose global distribution is confined to a small area on either side of the Snake River near Huntington, Oregon, about halfway between Baker City and Ontario. It is listed as endangered by the ODA, and is scheduled for listing by the U.S. Fish and Wildlife Service by 1996. Most known populations of *H. radiatus* are located on land under the jurisdiction of the Bureau of Land Management (BLM), which has placed it on the agency's Special Status Species list. Consequently the BLM has contracted with the ODA to study this rare native to obtain information needed for its conservation.

H. radiatus is an herbaceous perennial which occurs on dry rolling hills in a community of *Artemisia tridentata*/*Agropyron spicatum*-*Poa sandbergii*. It blooms in June and July. Research on the species to date indicates that its population is in decline, and suggests that if observed trends continue it may be extinct within ten years. It is therefore imperative that the reasons for the low population viability of *H. radiatus* be determined

and steps taken to prevent its extinction. Several factors may be implicated in its poor reproductive performance, including direct and indirect effects of livestock grazing and poor seed dispersal. Accordingly, in 1991 ODA set up a project with the objectives of observing population trends, determining population dynamics and comparing population dynamics between grazed and ungrazed populations. Five monitoring sites were established, each site having two plots, one open to grazing and one fenced. Each plot is ten meters square and contains 50 one-meter-square subplots. Data is collected twice a year, in spring and in summer.

The task of the field team I joined in the spring was to locate *H. radiatus* seedlings. After a wet, gray April in the westside, it was wonderful to be in sunny eastern Oregon in early May. We camped at Farewell Bend State Park, which left much to be desired as a wilderness experience but did have showers and lots of birds including two great horned owl nestlings. Our work days were spent on the dry, rolling south to west-facing hillsides, the favored habitat of *H. radiatus*. Supplied with a meter-square PVC frame to help us locate subplots, we crouched on the ground to look for seedlings. These were mapped on copies of last year's data sheets. The seedling sample was a simple procedure involving learning to distinguish the seedlings of *H. radiatus*. One plot had been invaded by *Cardaria draba*, which we had to weed out before we could collect our data. With few exceptions, seedlings in the subplots we sampled seemed disappointingly sparse. This may represent a lingering effect of the recent drought.

On the last day of our trip we met Vale District botanist Jean Findley in Unity, Oregon. Our purpose was to visit several of the known locations of another rare, highly localized endemic, *Lupinus cusickii*. This species favors the kind of substrate that also attracts off-road vehicle users; loose, rocky slopes. Unrestrained ORV use clearly threatens *L. cusickii*. The ODA is helping BLM botanists set up study plots to determine the effect of ORV use and of livestock grazing. We visited three potential research sites which were assessed for possible locations for fenced and open study plots.

The second week of my internship came in late July and involved studying a member of the fami-

ly Ranunculaceae, *Cimicifuga elata* Nutt., commonly called tall bugbane. This species of Douglas fir forests is a large 1-2 meter tall herbaceous perennial with compound leaves and a raceme of white apetalous flowers.

In contrast to *H. radiatus* and *L. cusickii*, which have very restricted ranges, *C. elata* has a very broad range, historically known in the forests of the western Cascades from British Columbia south to Douglas County in Oregon; at present, the northernmost population is located on the northern Olympic Peninsula. Nevertheless, it is of concern to botanists because its populations are usually very small, from fewer than 25 up to 100 plants per patch. This suggests that each population might be vulnerable. Human activities are, not to anyone's surprise, implicated in the loss of *C. elata*'s habitat, principally from logging but also from pressures of development and roads. Consequently, the species has been declared a candidate for listing as threatened or endangered with the state of Oregon, and is included on Forest Service and BLM sensitive plant lists.

In 1992 the ODA established a joint project with the federal agencies to monitor the population status of this species and determine the effect of logging and timber management practices on its populations. The 1993 field studies included continued monitoring of established sites and surveying for new populations to add to the inventory of *C. elata*.

During the week of my internship, the field crew and agency personnel visited widely scattered study sites on BLM land in the northern Willamette Valley. We drove to Salem each morning to meet BLM staff who were to accompany us, and then divided into teams for the day's work.

Our monitoring assignments consisted of revisiting and collecting data from plots established last year. At each site, we located individual plants which had been marked with metal tags, mapped untagged plants not on last year's data sheets, and recorded demographic data including plant height, number and size of leaves, number of reproductive stems, and the percent of herbivory. This involved learning to distinguish *C. elata* from *Actea rubra*, another herbaceous perennial with similarly divided leaves. The major challenge *C. elata* presented was its preference for slopes, steep, slippery, wet, densely vegetated slopes, which made the concept of angle of repose very clear!

Our other task was to survey for new populations

of *C. elata* using habitat indicators derived from previous research. Field work from 1992 shows that although *C. elata* is found in a variety of habitats, it generally prefers north-facing slopes in a mature mixed forest of conifer (*Pseudotsuga menziesii*) and deciduous (*Acer macrophyllum*) trees. We started with maps on which areas had been marked by agency botanists where *A. macrophyllum* was present in the overstory. We then located those areas on topographic maps to find north-facing slopes. This cross-referencing process yielded quite a number of new sites to survey. While doing so, we crisscrossed much of the northern Willamette Valley. Sometimes finding the sites proved quite challenging: gates were locked, roads didn't exist or were blocked by berms, a river would be between us and the site, or the site would be surrounded by private land. Although it was fun to explore new territory, none of the sites we did manage to find during my week turned up new populations, which was discouraging.

I am indebted to the Native Plant Society and the Oregon Department of Agriculture Plant Conservation Biology Program for their support of the internship. Special thanks go to Tom Kaye and the other members of the 1993 field crew, Melissa Kirkland, Nick Testa, Angie Ruzicka, Melissa Peterson, Matt Carlson and Steve Gisler for their enthusiasm and willingness to share their knowledge of botany. I am truly grateful for the opportunity to contribute to the preservation of Oregon's rich natural heritage.

-- Mary Garrard



H. radiatus (Nutt.) Cronq.
Hitchcock, Charles Leo, "
Flora of the Pacific Northwest

Searching for Sedges

Was Friday or Saturday the more exciting day for the *Carex* Working Group's July trip? Thanks to a research grant from the NPSO, Keli Kuykendall, Jim Oliphant, Barbara Wilson, Georgine Yorgey and Peter Zika were searching the vast "sedge desert" of north-central Oregon for *Carex*.

No *Carex* had ever been reported for Gilliam County. By late Friday that situation had not changed and the group was approaching the county line. Then Keli found *Carex lanuginosa* along a creek near Lone Rock, and soon the bemused rancher was watching botanists wax enthusiastic over *C. pachystachya* and *C. microptera*. The discovery of *C. nebrascensis* zoomed the county total to four species.

Saturday the group visited the more varied habitats of the Umatilla National Forest in Morrow County, from which only one *Carex* species had been reported. As new county record followed new county record, the group's favorite was *C. praticola* which even sedge expert Peter had never seen before.

By six in the evening, the total was 11 new county records. Could it reach an even dozen by dark? An open meadow by a stream provided the 12th species and then more. As Peter washed the root wad of *C. luzulina* Barbara had dug, he found a bonus sedge, the delicate and edible *C. aurea*.

By the end of May, Morrow County had 15 new *Carex* records: *C. athrostachya*, *aurea*, *concinoidea*, *deweyana* var. *lepropoda*, *geyeri*, *hoodii*, *ionessii*, *lanuginosa*, *lenticularis* var. *lipocarpa*, *luzulina* var. *luzulina*, *microptera*, *pachystachya*, *praticola*, *rossii* and *vesicaria*.

Sunday the group entered Wheeler County, where Peter predicted *C. nudata* would grow on the John Day River. A mile out of Spray, he disappeared down a near-vertical 15 foot slope to extract a confirming sample from the riverine rocks. Late in the day, Jim found *C. amplifolia*, the trip's last new county record. Though the area was dry, this sedge has wet feet, and by the time he had collected his fine specimen, Jim's feet matched the plant's.

The *Carex* Working Group is studying the distribution of Oregon's sedges. The group has pro-

duced a preliminary atlas of *Carex* distribution and is now collecting specimens and observations that will permit publication of a more detailed and accurate atlas. Collecting this data is too complex a task for the small working group to accomplish. The group would like to receive specimens of *Carex* from botanists and sedge enthusiasts throughout the state. People interested in contributing specimens or receiving maps should contact the *Carex* Working Group, Department of Botany and Plant Pathology, Oregon State University, Corvallis, Oregon 97331.

Barbara Wilson
Corvallis Chapter

DRUG SEARCH

The New York Botanical Garden and Pfizer, Inc., the pharmaceutical concern, are collaborating in a \$2 million, three-year nationwide search for plants that might be the bases of new medicines, it was reported recently in *The New York Times* (9/21/93, B7).

Emphasis has been put on the tropics, in such searches (Merck & Company and Costa Rica, for example), "but botanists believe the native plants of the United States also provide a potentially valuable source of drugs."

About one fourth of all prescription drugs used in this country are plant-based, it is estimated, but only about one half of one percent of the world's higher plants have been thoroughly screened, for this purpose.

Book Review

Wild Trees of British Columbia, by Sherman G. Brough. Pacific Educational Press, University of British Columbia, Vancouver, B.C. V6T 1Z4. \$18.95 (Canadian). Reviewed by Art Kruckeberg.

Natural history guidebooks can be tricky - even downright deceptive. They promise so much, with glossy covers and great bouquets of colored photos. But then comes the test of their ability to aid in identification, or simply to provide accurate information about wild plants. Rarely does a guide come along that passes the two tests: utility and substance. This compact guide to the trees of the Pacific Northwest passes with flying colors. Dr. Brough has given us a most useable and highly informative guidebook to the conifers and broadleaf trees of our region. Though written for B.C., it serves well much of the PNW, except for SW Oregon (the Siskiyou deserve their own guidebook!).

So what are the unique and rewarding features of this handbook? First the keys! Most beginner's guides fail to include even simple keys. But Brough gives us an easy-to-use illustrated key to conifers and hardwood species. Next are the informative descriptions of each tree: its identifying features, its ecology and distribution, and then local folklore and uses. Also provided are the derivations of botanical names. For the Francophile, the Canadian compulsion to give both French and English names will be satisfying (Did you know that "If" is French-Canadian for "yew"?) Illustrations are excellent: color plates, line drawings and distribution maps. Still another charming feature will captivate the user; for each tree species there are included its ecological companions; plants and animals associated with the tree. For Douglas fir, we find Oregon grape, twinflower and *Amanita*, each with a text and a line drawing.

In back of the sections on conifers and hardwood trees, Brough gives several unique and useful bonuses: Early plant explorers, origins of tree names, statistics on tree heights, locations and life-zones, a glossary and a full list of references. So get this little book; it is a most rewarding companion to the other good tree book, by Arno and Hammerly, *Northwest Trees*.

(Reprinted from *Douglasia*, Autumn, 1993)

Guidelines for Contributors to the Bulletin

NPSO *Bulletin* published monthly as a service to members and the public. All kinds of contributions welcome. **Copy due by the 10th of each month.**

CREDITS: Identify author and affiliation. If item is not original, cite source and date. Indicate if item is to be used in its entirety, or excerpted at editor's discretion.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some MacIntosh graphics can be used. Contact editor for our current needs or send them along with your article.

BOTANICAL NOMENCLATURE: Follow *Flora of the Pacific Northwest*, by Hitchcock et al., or *The Jepson Manual*, where appropriate. Use both scientific and common names if possible.

FORMAT: Submissions can be in any form, but at present the editor prefers hard copy. Use of a modem is not possible at this time. The editor follows *The Associated Press Stylebook*. For any further details consult editor.

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Suggestion

It has been suggested that Chapters send in, for inclusion in the *Bulletin*, accounts of any unusual activities, trips, plant finds or other items of special interest.

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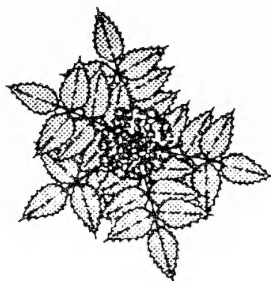
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